Allegato 1: Curve di lavorabilità per le sei miscele di CDWA indagate (ottimizzazione della miscela)

$y = 6,24x + 65,66$
$R^2 = 1,00$

8%_SA

$y = 6,74x + 64,67$
$R^2 = 1,00$

9%_SA

$y = 7,33x + 65,27$
$R^2 = 1,00$

10%_SA

$y = 7,53x + 65,53$
$R^2 = 1,00$

11%_SA

Left chart:

12%_SA

y = 7,06x + 67,31
R² = 1,00

C_N [%] (y-axis, 0 to 100)
log (N) [-] (x-axis, 0,0 to 2,0)

Right chart:

13%_SA

y = 6,19x + 68,94
R² = 1,00

C_N [%] (y-axis, 0 to 100)
log (N) [-] (x-axis, 0,0 to 2,0)
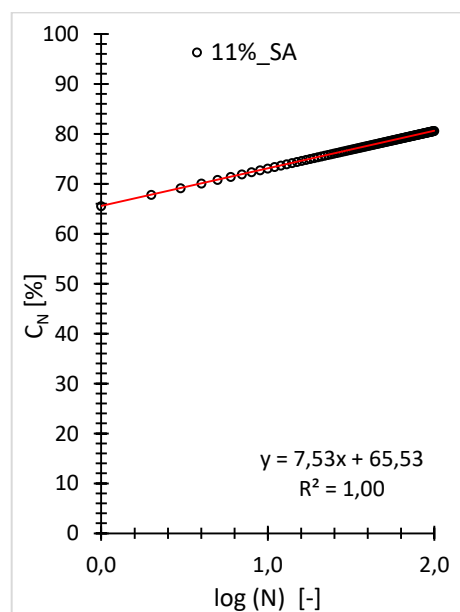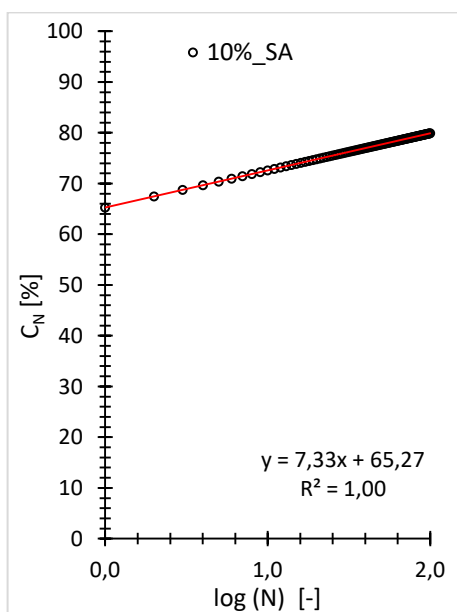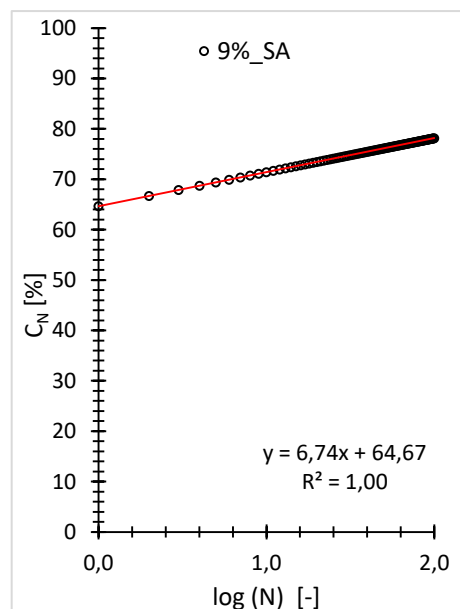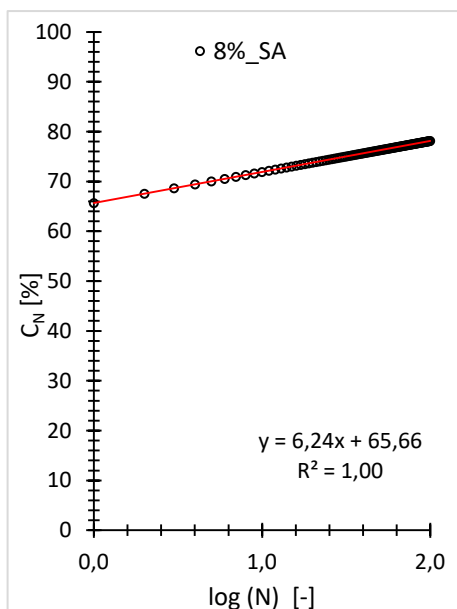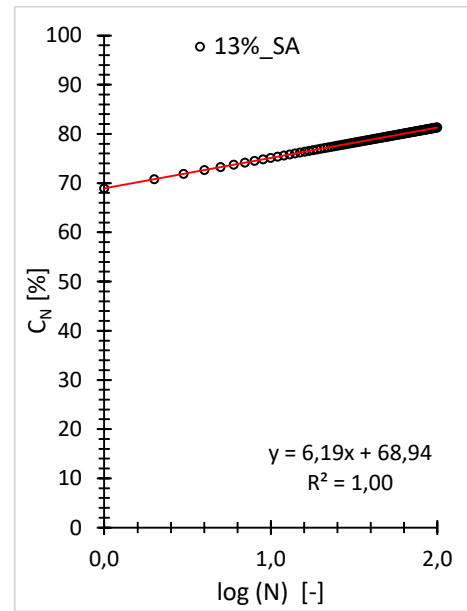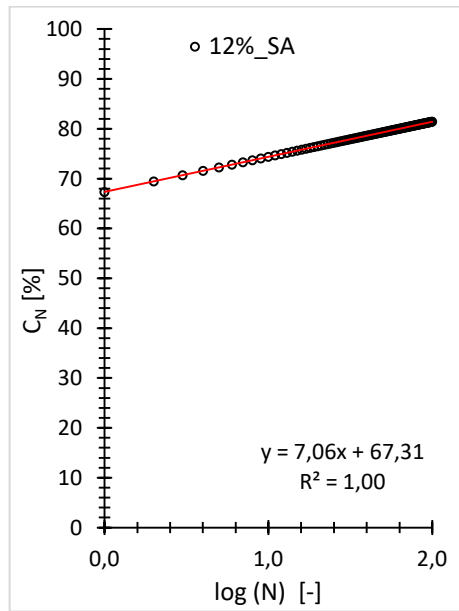
Allegato 2: Curve di lavorabilità per le tre miscele di NAT indagate (contenuto variabile di acqua)

y = 6,25x + 67,60
R² = 1,00

○ 6%_H2O

y = 6,83x + 70,02
R² = 1,00

○ 6.5%_H2O

y = 7,02x + 71,77
R² = 1,00

○ 7%_H2O
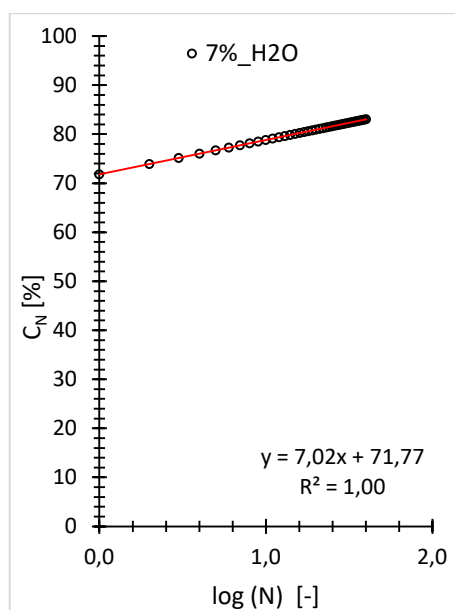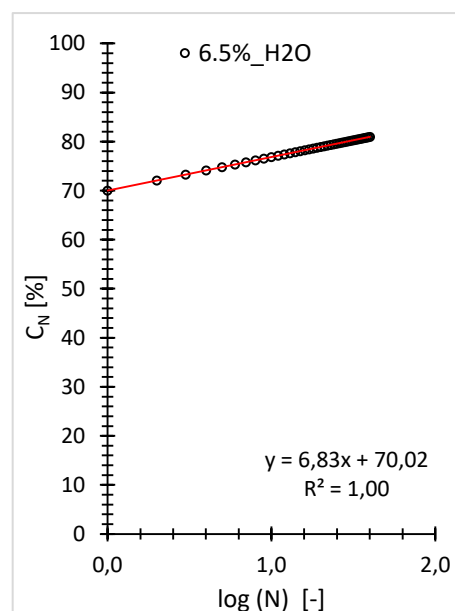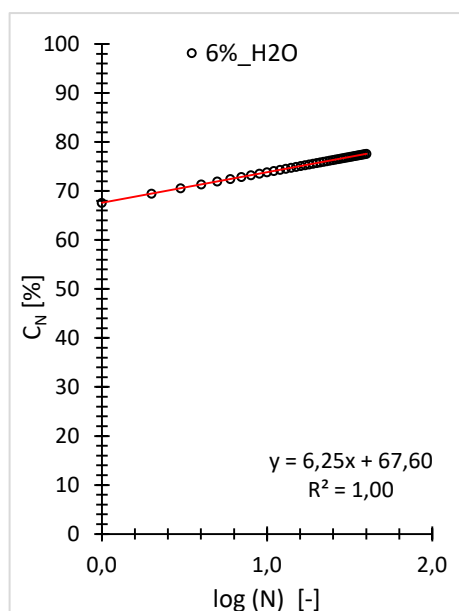
Allegato 3: Tabella dei coefficienti di lavorabilità dei campioni di CDWA 100x200 mm
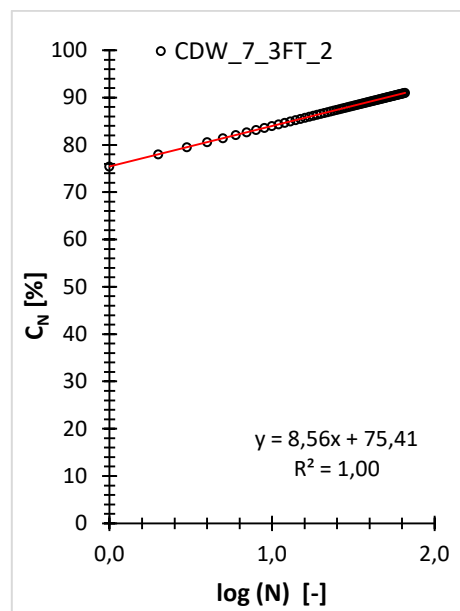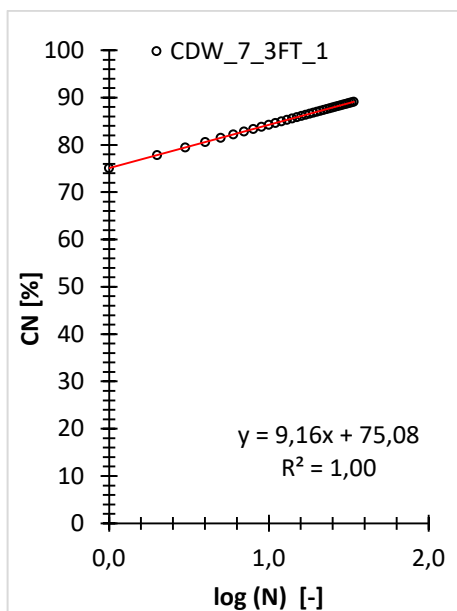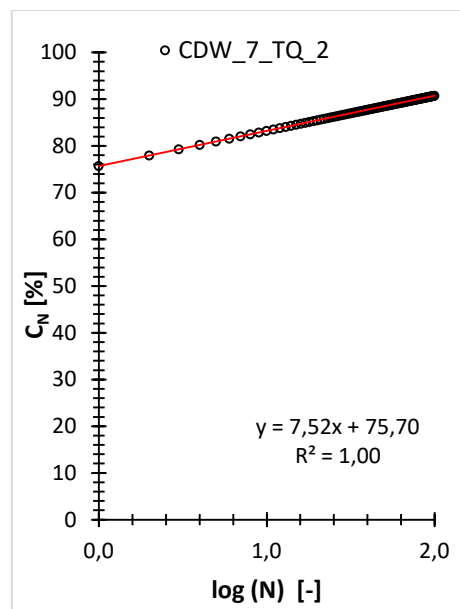
Stagionatura	Degrado termico	Campione	C_1	k	$\%C_{100}$
7 giorni	0 cicli di gelo/disgelo	1	75,20	8,11	91,42
		2	75,70	7,52	90,74
	3 cicli di gelo/disgelo	1	75,08	9,17	93,41
		2	75,41	8,56	92,53
	4 cicli di gelo/disgelo	1	75,27	8,40	92,08
		2	74,36	8,20	90,76
	8 cicli di gelo/disgelo	1	75,11	8,37	91,86
		2	74,89	8,59	92,07
	12 cicli di gelo/disgelo	1	74,83	8,71	92,24
		2	74,59	8,49	91,58
28 giorni	0 cicli di gelo/disgelo	1	72,24	7,82	87,87
		2	74,28	8,33	90,93
	4 cicli di gelo/disgelo	1	73,73	8,03	89,79
		2	73,10	8,03	89,15
	8 cicli di gelo/disgelo	1	75,01	7,95	90,90
		2	74,94	8,00	90,94
	12 cicli di gelo/disgelo	1	73,88	7,77	89,42
		2	74,35	8,03	90,40
45 giorni	0 cicli di gelo/disgelo	1	75,39	7,99	91,36
		2	74,38	7,73	89,83
	4 cicli di gelo/disgelo	1	74,67	7,56	89,79
		2	75,13	7,72	90,56
	8 cicli di gelo/disgelo	1	74,50	7,93	90,36
		2	74,24	7,82	89,88
	12 cicli di gelo/disgelo	1	74,21	8,06	90,33
		2	74,26	7,68	89,62
60 giorni	0 cicli di gelo/disgelo	1	72,70	8,22	89,13
		2	73,65	8,08	89,80
	4 cicli di gelo/disgelo	1	73,21	7,92	89,05
		2	73,49	8,03	89,56
	8 cicli di gelo/disgelo	1	73,79	8,26	90,31
		2	74,11	7,76	89,62
	12 cicli di gelo/disgelo	1	75,92	8,84	93,59
		2	75,24	8,27	91,77

Allegato 4: Curve di lavorabilità dei CDWA stagionati 7 giorni 100x200 mm

CDW_7_TQ_1

$y = 8,11x + 75,20$
$R^2 = 1,00$

CDW_7_TQ_2

$y = 7,52x + 75,70$
$R^2 = 1,00$

CDW_7_3FT_1

$y = 9,16x + 75,08$
$R^2 = 1,00$

CDW_7_3FT_2

$y = 8,56x + 75,41$
$R^2 = 1,00$

Left chart:

○ CDW_7_12FT_1

C_N [%]

log (N) [-]

y = 8,70x + 74,83
R² = 1,00

Right chart:

○ CDW_7_12FT_2

C_N [%]

log (N) [-]

y = 8,49x + 74,59
R² = 1,00
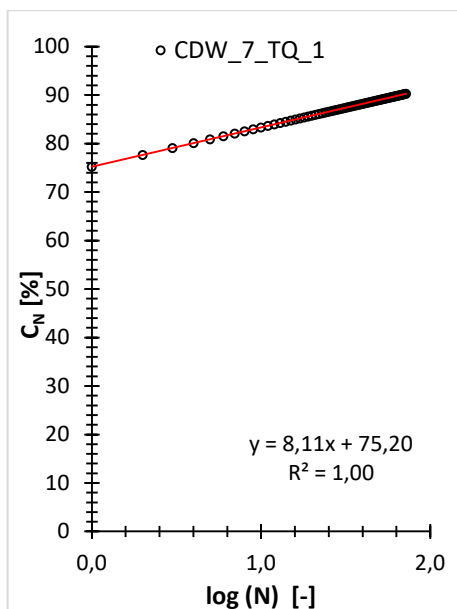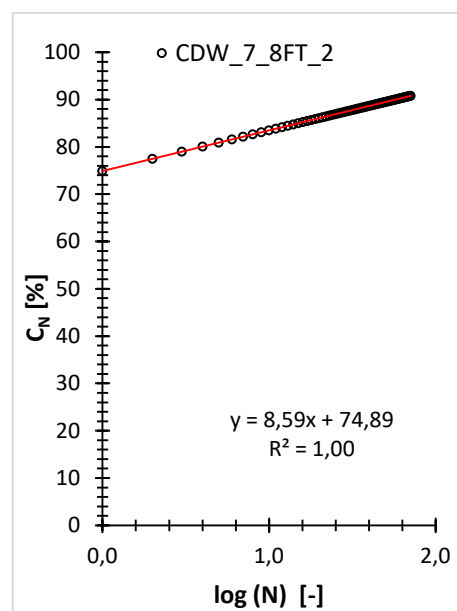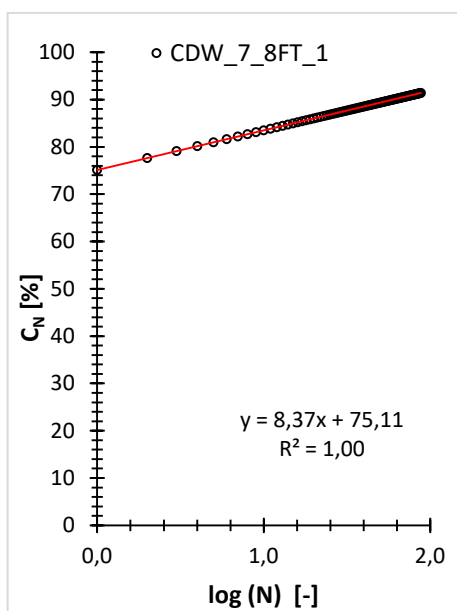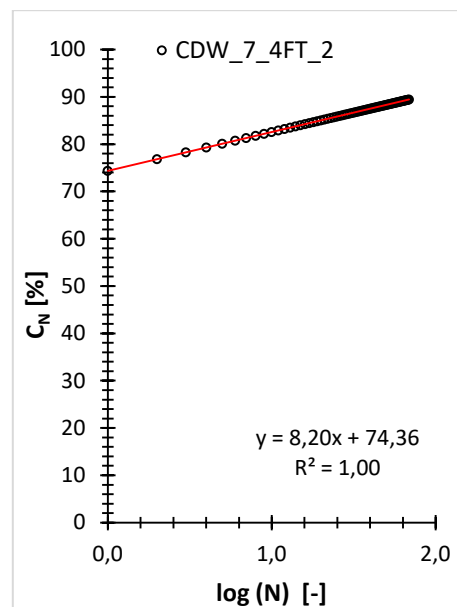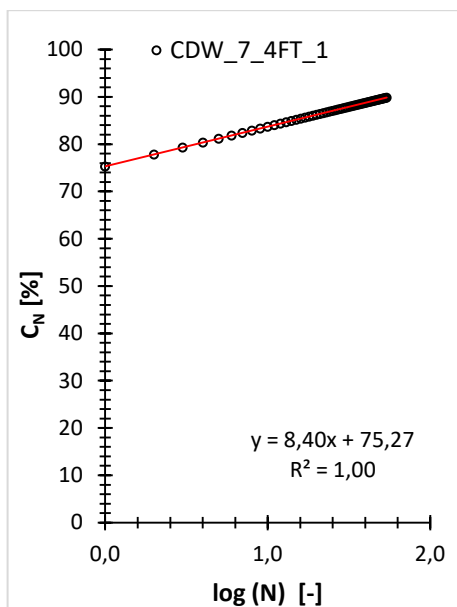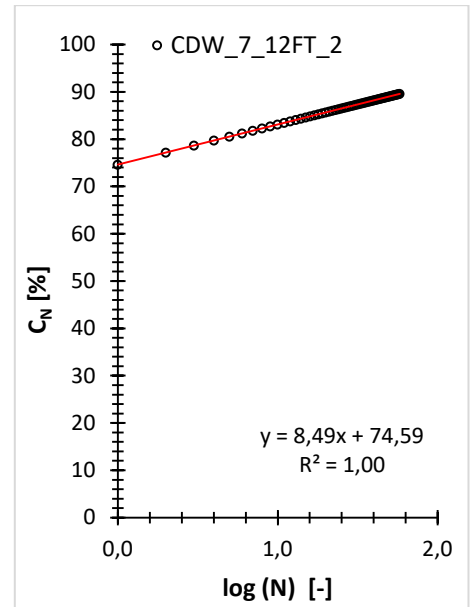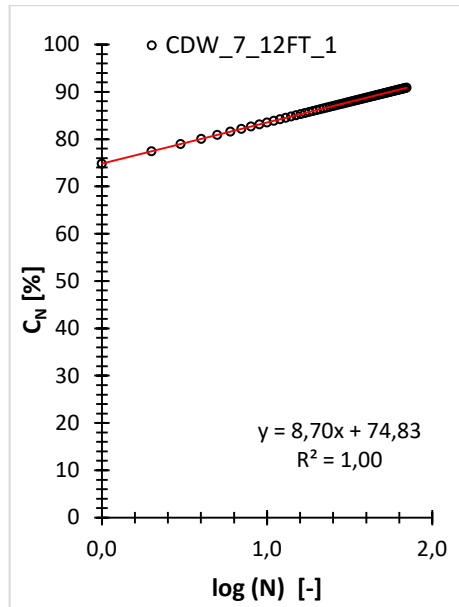
Allegato 5: Curve di lavorabilità dei CDWA stagionati 28 giorni 100x200 mm

CDW_28_TQ_1

$y = 7{,}82x + 72{,}23$
$R^2 = 1{,}00$

C_N [%] vs log (N) [-]

CDW_28_TQ_2

$y = 8{,}32x + 74{,}28$
$R^2 = 1{,}00$

C_N [%] vs log (N) [-]

CDW_28_4FT_1

$y = 8{,}03x + 73{,}73$
$R^2 = 1{,}00$

C_N [%] vs log (N) [-]

CDW_28_4FT_2

$y = 8{,}03x + 73{,}10$
$R^2 = 1{,}00$

C_N [%] vs log (N) [-]

Top-left plot: CDW_28_8FT_1

y = 7,95x + 75,00
R² = 1,00

C_N [%] vs log (N) [-]

Top-right plot: CDW_28_8FT_2

y = 8,00x + 74,94
R² = 1,00

C_N [%] vs log (N) [-]

Bottom-left plot: CDW_28_12FT_1

y = 7,77x + 73,88
R² = 1,00

C_N [%] vs log (N) [-]

Bottom-right plot: CDW_28_12FT_2

y = 8,02x + 74,35
R² = 1,00

C_N [%] vs log (N) [-]
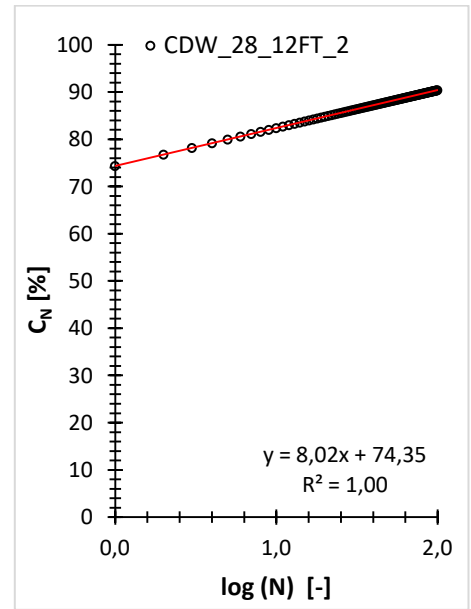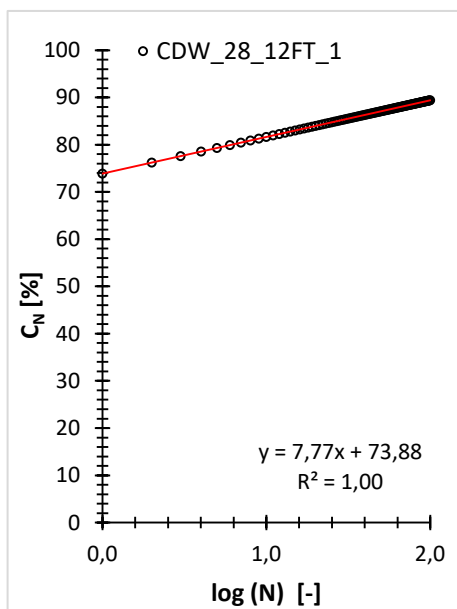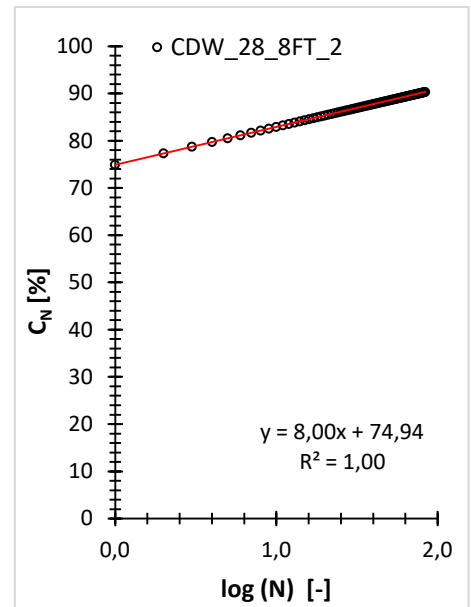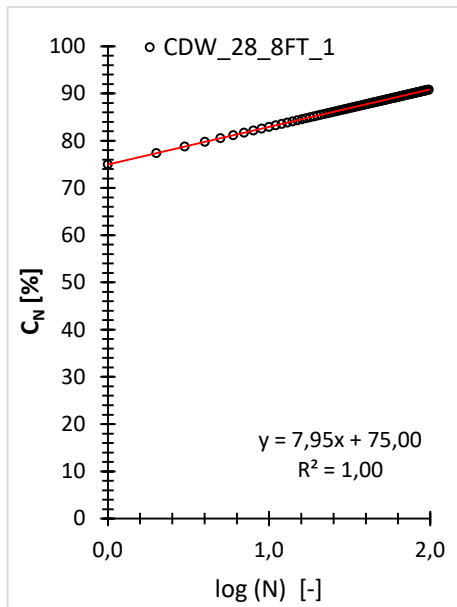
Allegato 6: Curve di lavorabilità dei CDWA stagionati 45 giorni 100x200 mm

CDW_45_TQ_1

$y = 7,99x + 75,39$
$R^2 = 1,00$

CDW_45_TQ_2

$y = 7,73x + 74,37$
$R^2 = 1,00$

CDW_45_4FT_1

$y = 7,56x + 74,67$
$R^2 = 1,00$

CDW_45_4FT_2

$y = 7,72x + 75,13$
$R^2 = 1,00$

Top-left plot — CDW_45_8FT_1:

$y = 7{,}93x + 74{,}49$
$R^2 = 1{,}00$

Top-right plot — CDW_45_8FT_2:

$y = 7{,}82x + 74{,}24$
$R^2 = 1{,}00$

Bottom-left plot — CDW_45_12FT_1:

$y = 8{,}06x + 74{,}21$
$R^2 = 1{,}00$

Bottom-right plot — CDW_45_12FT_2:

$y = 7{,}68x + 74{,}26$
$R^2 = 1{,}00$

Axes (all plots): C_N [%] versus $\log(N)$ [-]
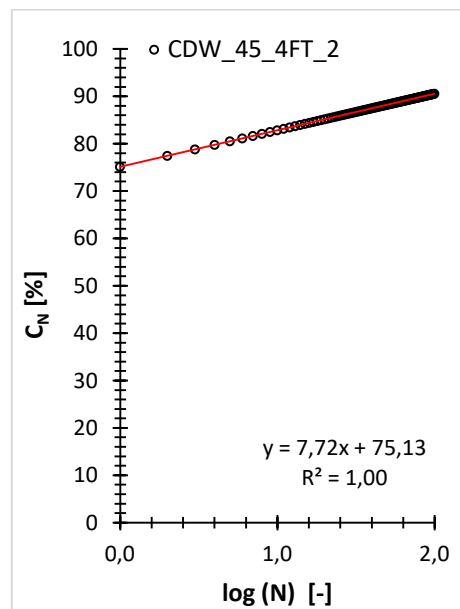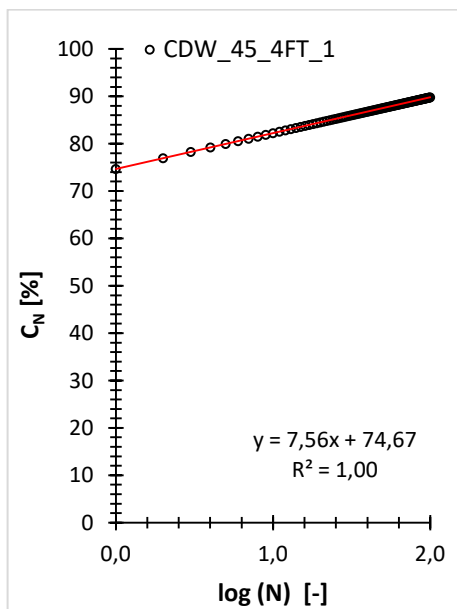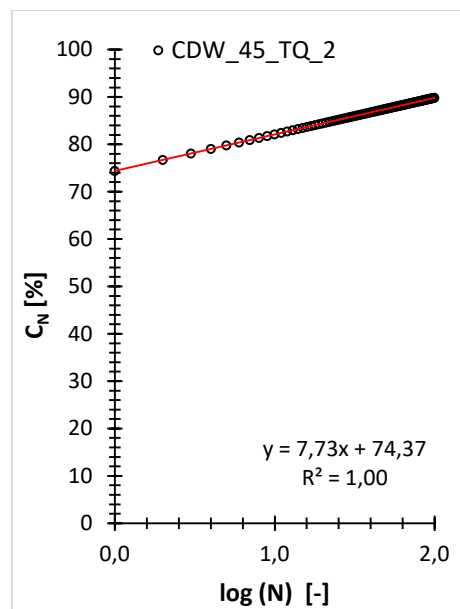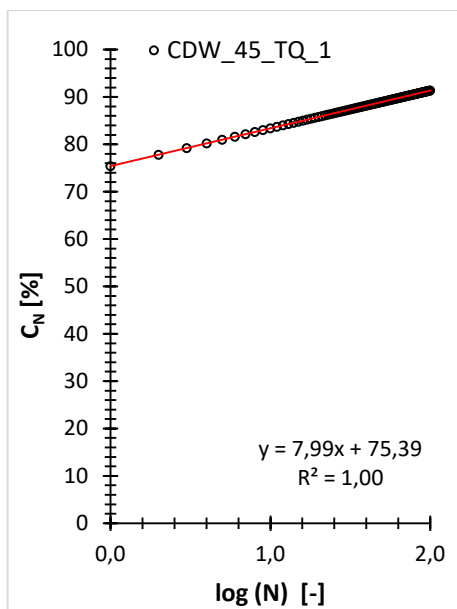
Allegato 7: Curve di lavorabilità dei CDWA stagionati 60 giorni 100x200 mm

CDW_60_TQ_1

$y = 8,22x + 72,70$
$R^2 = 1,00$

C_N [%] vs log (N) [-]

CDW_60_TQ_2

$y = 8,08x + 73,65$
$R^2 = 1,00$

C_N [%] vs log (N) [-]

CDW_60_4FT_1

$y = 7,92x + 73,21$
$R^2 = 1,00$

C_N [%] vs log (N) [-]

CDW_60_4FT_2

$y = 8,03x + 73,49$
$R^2 = 1,00$

C_N [%] vs log (N) [-]

Top-left chart: CDW_60_8FT_1

$y = 8{,}26x + 73{,}79$
$R^2 = 1{,}00$

Top-right chart: CDW_60_8FT_2

$y = 7{,}76x + 74{,}10$
$R^2 = 1{,}00$

Bottom-left chart: CDW_60_12FT_1

$y = 8{,}83x + 75{,}92$
$R^2 = 1{,}00$

Bottom-right chart: CDW_60_12FT_2

$y = 8{,}27x + 75{,}24$
$R^2 = 1{,}00$

Axis labels: C_N [%] (vertical), log (N) [-] (horizontal)

Allegato 8: Tabella dei coefficienti di lavorabilità dei campioni di NAT 100x200 mm

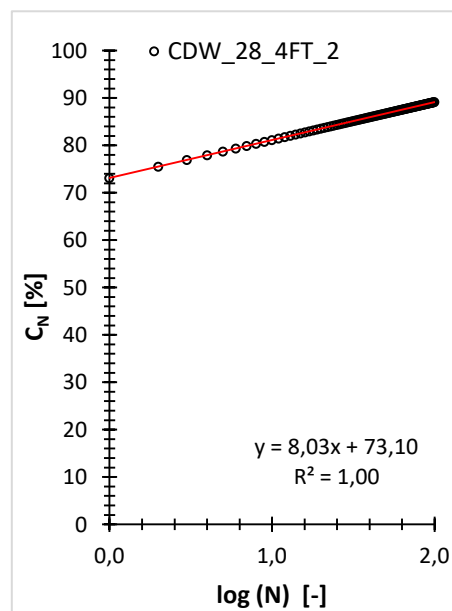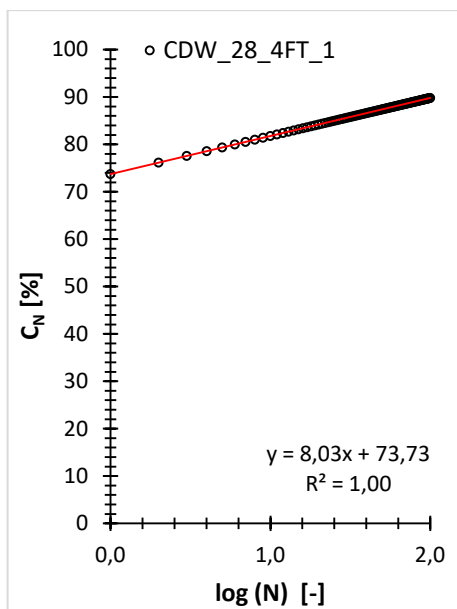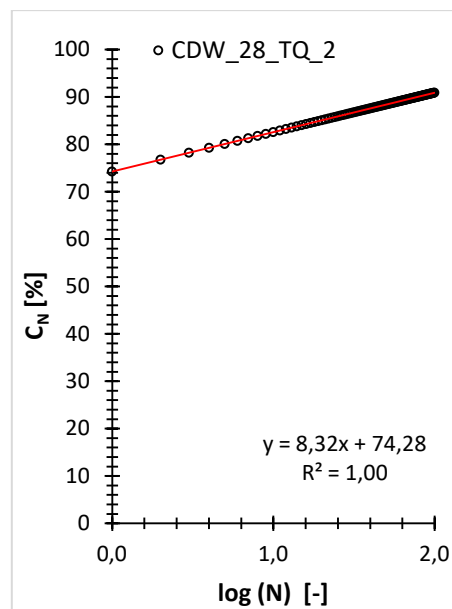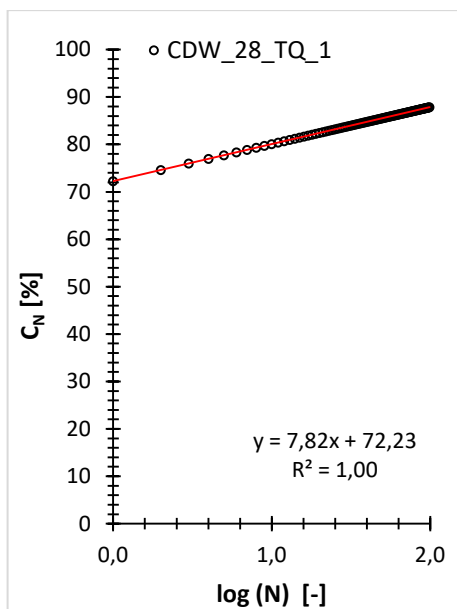| Stagionatura	Degrado termico	Campione	C_1	k	$\%C_{100}$
7 giorni	0 cicli di gelo/disgelo	1	77,29	7,87	93,02
		2	76,47	8,05	92,57
	4 cicli di gelo/disgelo	1	76,51	7,89	92,30
		2	77,09	7,77	92,62
	8 cicli di gelo/disgelo	1	77,34	7,30	91,94
		2	77,01	7,72	92,44
	12 cicli di gelo/disgelo	1	77,37	7,92	93,20
		2	77,13	7,76	92,65
28 giorni	0 cicli di gelo/disgelo	1	77,25	7,54	92,33
		2	76,63	7,29	91,20
	4 cicli di gelo/disgelo	1	76,81	7,58	91,97
		2	76,64	7,83	92,29
	8 cicli di gelo/disgelo	1	76,57	7,74	92,06
		2	76,57	7,55	91,67
	12 cicli di gelo/disgelo	1	77,28	7,65	92,58
		2	76,67	7,78	92,22

Allegato 9: Curve di lavorabilità dei NAT stagionati 7 giorni 100x200 mm

NAT_7_TQ_1

$y = 7{,}86x + 77{,}29$
$R^2 = 1{,}00$

NAT_7_TQ_2

$y = 8{,}05x + 76{,}47$
$R^2 = 1{,}00$

NAT_7_4FT_1

$y = 7{,}89x + 76{,}51$
$R^2 = 1{,}00$

NAT_7_4FT_2

$y = 7{,}76x + 77{,}09$
$R^2 = 1{,}00$

Top-left chart: NAT_7_8FT_1

$y = 7{,}30x + 77{,}34$
$R^2 = 1{,}00$

X-axis: log (N) [-]
Y-axis: C_N [%]

Top-right chart: NAT_7_8FT_2

$y = 7{,}72x + 77{,}00$
$R^2 = 1{,}00$

X-axis: log (N) [-]
Y-axis: C_N [%]

Bottom-left chart: NAT_7_12FT_1

$y = 7{,}92x + 77{,}37$
$R^2 = 1{,}00$

X-axis: log (N) [-]
Y-axis: C_N [%]

Bottom-right chart: NAT_7_12FT_2

$y = 7{,}76x + 77{,}13$
$R^2 = 1{,}00$

X-axis: log (N) [-]
Y-axis: C_N [%]
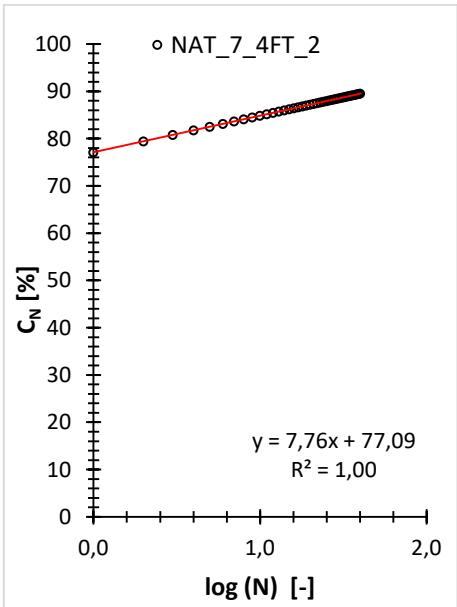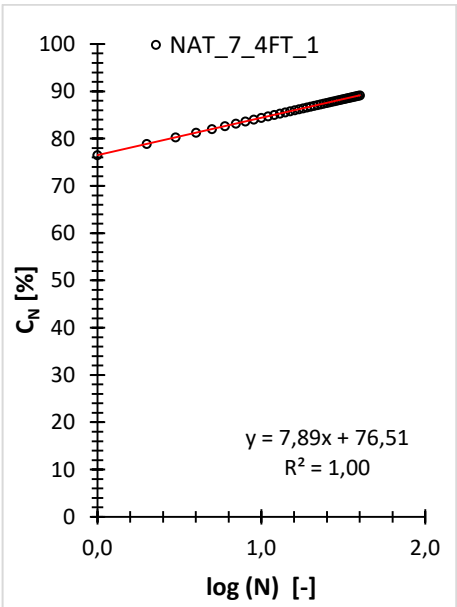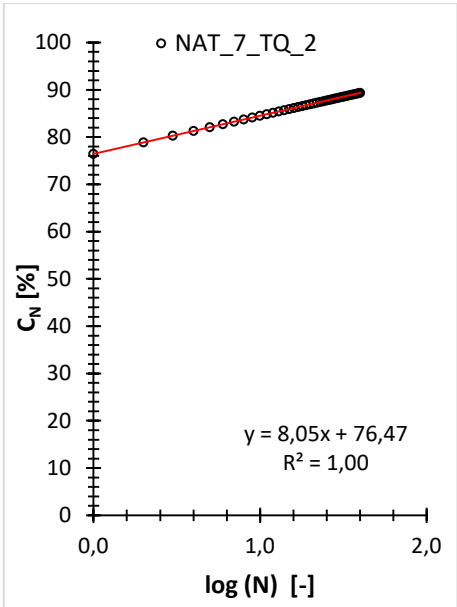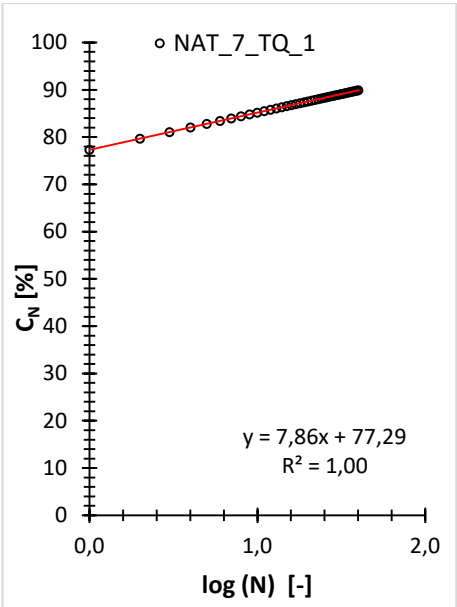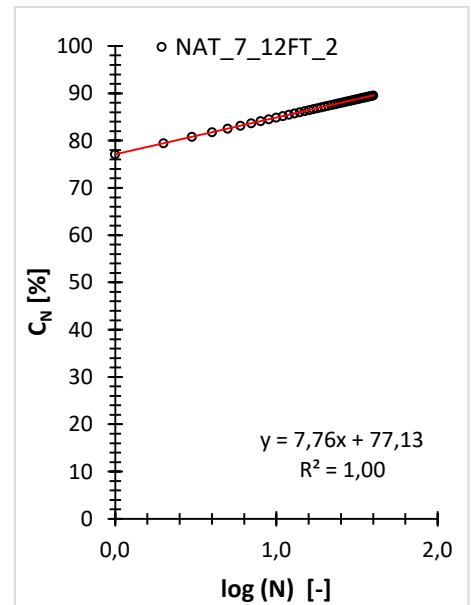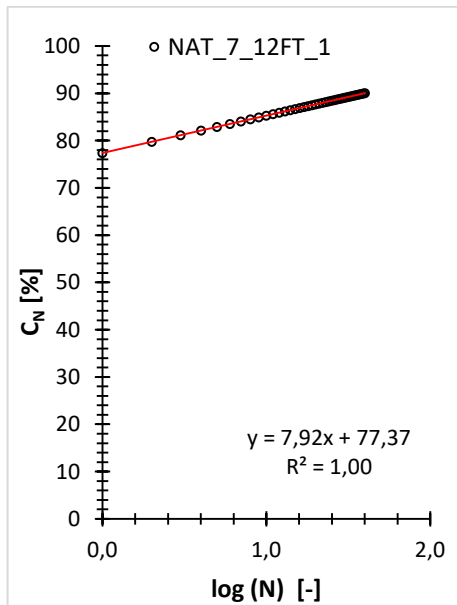
Allegato 10: Curve di lavorabilità dei NAT stagionati 28 giorni 100x200 mm

Grafico NAT_28_TQ_1:
$$y = 7{,}54x + 77{,}24$$
$$R^2 = 1{,}00$$

Grafico NAT_28_TQ_2:
$$y = 7{,}29x + 76{,}62$$
$$R^2 = 1{,}00$$

Grafico NAT_28_4FT_1:
$$y = 7{,}58x + 76{,}81$$
$$R^2 = 1{,}00$$

Grafico NAT_28_4FT_2:
$$y = 7{,}83x + 76{,}64$$
$$R^2 = 1{,}00$$

Top-left chart: NAT_28_8FT_1

- x-axis: log (N) [-]
- y-axis: C_N [%]
- $y = 7{,}74x + 76{,}57$
- $R^2 = 1{,}00$

Top-right chart: NAT_28_8FT_2

- x-axis: log (N) [-]
- y-axis: C_N [%]
- $y = 7{,}55x + 76{,}57$
- $R^2 = 1{,}00$

Bottom-left chart: NAT_28_12FT_1

- x-axis: log (N) [-]
- y-axis: C_N [%]
- $y = 7{,}65x + 77{,}28$
- $R^2 = 1{,}00$

Bottom-right chart: NAT_28_12FT_2

- x-axis: log (N) [-]
- y-axis: C_N [%]
- $y = 7{,}77x + 76{,}67$
- $R^2 = 1{,}00$
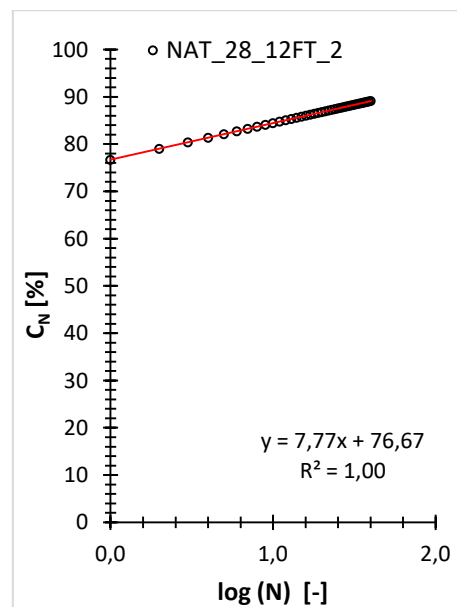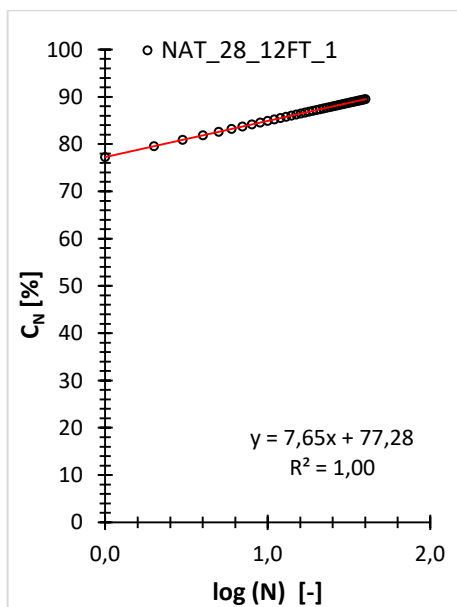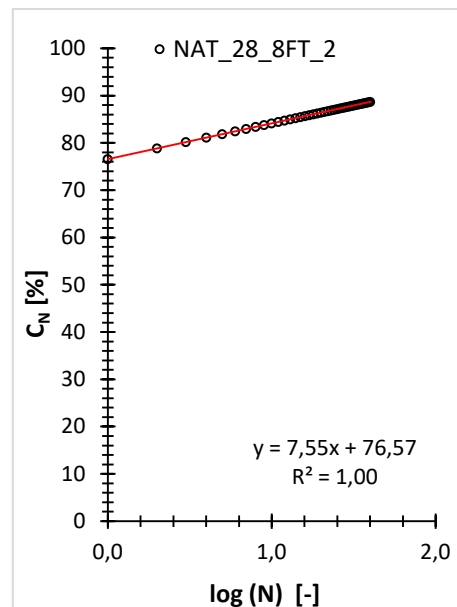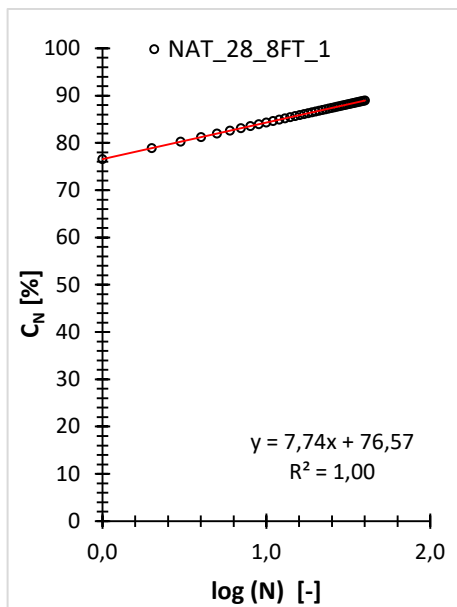
Allegato 11: Tabella dei coefficienti di lavorabilità dei campioni di CDWA 100x100 mm

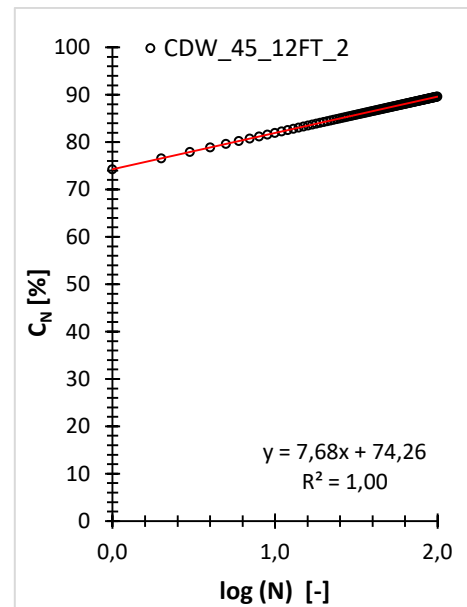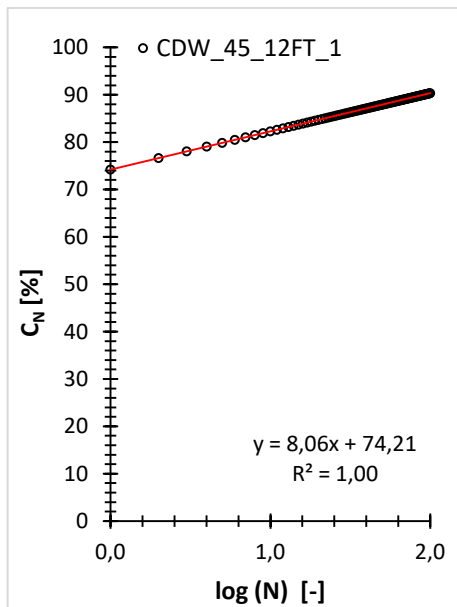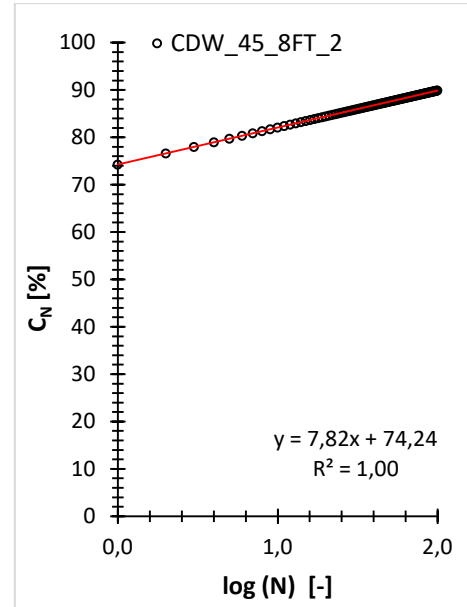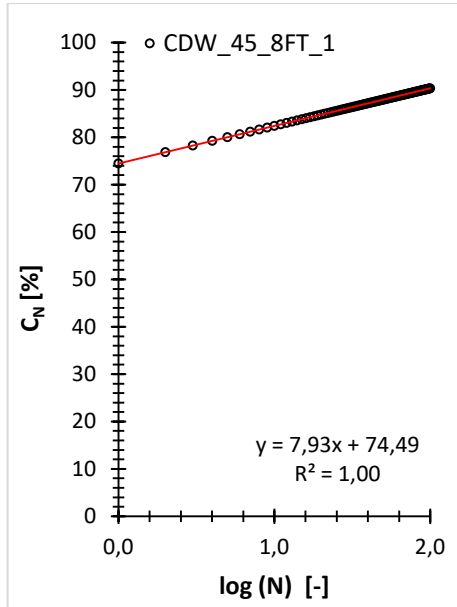| Stagionatura	Degrado termico	Campione	C_1	k	$\%C_{100}$
7 giorni	0 cicli di gelo/disgelo	1	76,53	7,96	92,44
		2	74,92	8,11	91,14
	3 cicli di gelo/disgelo	1	74,18	7,58	89,33
		2	74,18	7,93	90,04
	4 cicli di gelo/disgelo	1	75,31	7,98	91,27
		2	75,82	8,18	92,17
	8 cicli di gelo/disgelo	1	76,04	8,11	92,26
		2	74,80	8,53	91,86
	12 cicli di gelo/disgelo	1	75,11	8,07	91,25
		2	76,27	8,38	93,02
28 giorni	0 cicli di gelo/disgelo	1	74,47	8,06	90,58
		2	75,67	7,83	91,33
	4 cicli di gelo/disgelo	1	75,10	8,50	92,09
		2	74,51	8,10	90,71
	8 cicli di gelo/disgelo	1	73,64	7,83	89,29
		2	74,82	7,72	90,26
	12 cicli di gelo/disgelo	1	74,22	7,56	89,33
		2	74,37	7,80	89,97
45 giorni	0 cicli di gelo/disgelo	1	74,90	7,46	89,82
		2	75,04	7,34	89,72
	4 cicli di gelo/disgelo	1	74,49	7,77	90,02
		2	74,89	7,10	89,08
	8 cicli di gelo/disgelo	1	75,11	7,16	89,43
		2	75,75	7,67	91,09
	12 cicli di gelo/disgelo	1	74,69	7,78	90,24
		2	75,46	7,92	91,30
60 giorni	0 cicli di gelo/disgelo	1	74,90	7,98	90,86
		2	73,76	7,80	89,35
	4 cicli di gelo/disgelo	1	72,94	7,66	88,26
		2	74,70	7,93	90,55
	8 cicli di gelo/disgelo	1	74,77	7,83	90,43
		2	74,72	7,74	90,19
	12 cicli di gelo/disgelo	1	74,28	8,09	90,45
		2	74,75	7,80	90,34

Allegato 12: Curve di lavorabilità dei CDWA stagionati 7 giorni 100x100 mm

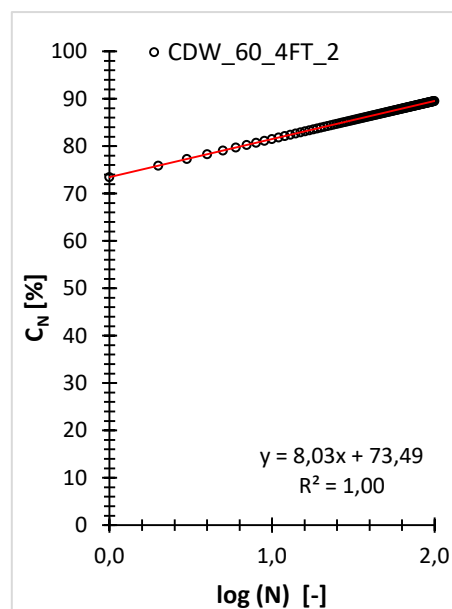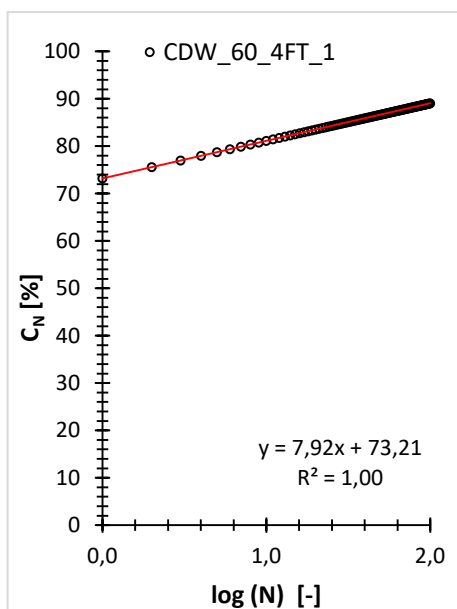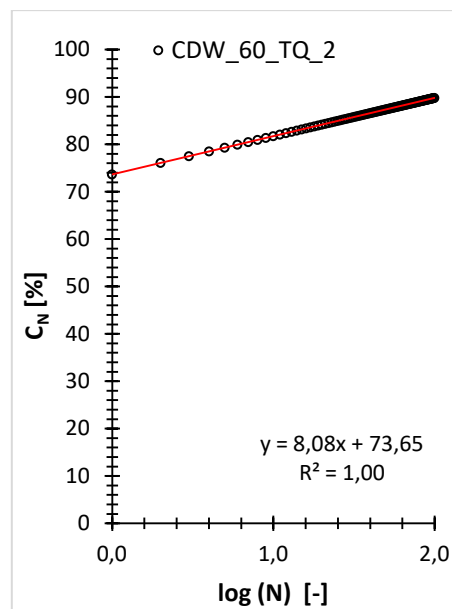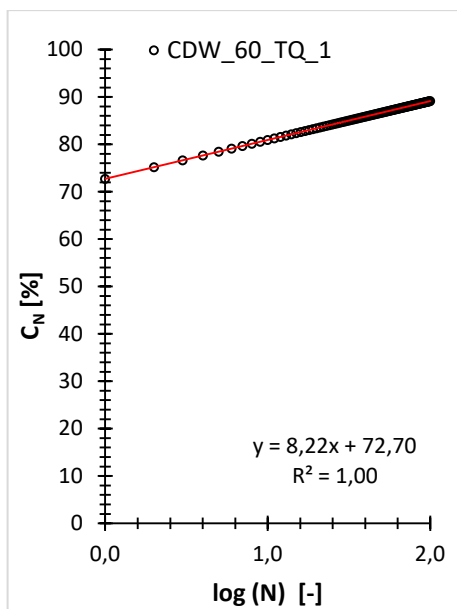CDW_7_0FT_1_100x100

$y = 7{,}95x + 76{,}52$
$R^2 = 1{,}00$

CDW_7_0FT_2_100x100

$y = 8{,}11x + 74{,}92$
$R^2 = 1{,}00$

CDW_7_3FT_1_100x100

$y = 7{,}57x + 74{,}18$
$R^2 = 1{,}00$

CDW_7_3FT_2_100x100

$y = 7{,}93x + 74{,}17$
$R^2 = 1{,}00$

Chart top-left: CDW_7_4FT_1_100x100, C_N [%] vs log (N) [-], y = 7,98x + 75,31, R² = 1,00

Chart top-right: CDW_7_4FT_2_100x100, C_N [%] vs log (N) [-], y = 8,17x + 75,82, R² = 1,00

Chart bottom-left: CDW_7_8FT_1_100x100, C_N [%] vs log (N) [-], y = 8,11x + 76,03, R² = 1,00

Chart bottom-right: CDW_7_8FT_2_100x100, C_N [%] vs log (N) [-], y = 8,53x + 74,80, R² = 1,00

Left chart:
- Legend: CDW_7_12FT_1_100x100
- Y-axis: C_N [%]
- X-axis: log (N) [-]
- $y = 8{,}07x + 75{,}11$
- $R^2 = 1{,}00$

Right chart:
- Legend: CDW_7_12FT_2_100x100
- Y-axis: C_N [%]
- X-axis: log (N) [-]
- $y = 8{,}37x + 76{,}26$
- $R^2 = 1{,}00$

Allegato 13: Curve di lavorabilità dei CDWA stagionati 28 giorni 100x100 mm

Grafico: CDW_28_0FT_1_100x100
$y = 8{,}06x + 74{,}47$
$R^2 = 1{,}00$
Asse X: log (N) [-], Asse Y: C_N [%]

Grafico: CDW_28_0FT_2_100x100
$y = 7{,}83x + 75{,}67$
$R^2 = 1{,}00$
Asse X: log (N) [-], Asse Y: C_N [%]

Grafico: CDW_28_4FT_1_100x100
$y = 8{,}50x + 75{,}09$
$R^2 = 1{,}00$
Asse X: log (N) [-], Asse Y: C_N [%]

Grafico: CDW_28_4FT_2_100x100
$y = 8{,}10x + 74{,}51$
$R^2 = 1{,}00$
Asse X: log (N) [-], Asse Y: C_N [%]

CDW_28_8FT_1_100x100

$y = 7{,}82x + 73{,}64$
$R^2 = 1{,}00$

CDW_28_8FT_2_100x100

$y = 7{,}72x + 74{,}82$
$R^2 = 1{,}00$

CDW_28_12FT_1_100x100

$y = 7{,}55x + 74{,}22$
$R^2 = 1{,}00$

CDW_28_12FT_2_100x100

$y = 7{,}80x + 74{,}37$
$R^2 = 1{,}00$
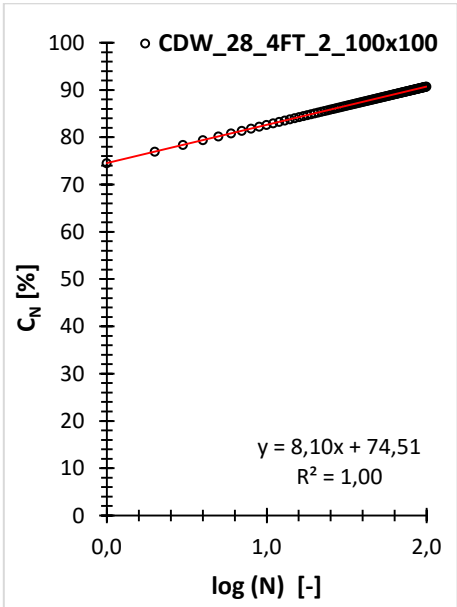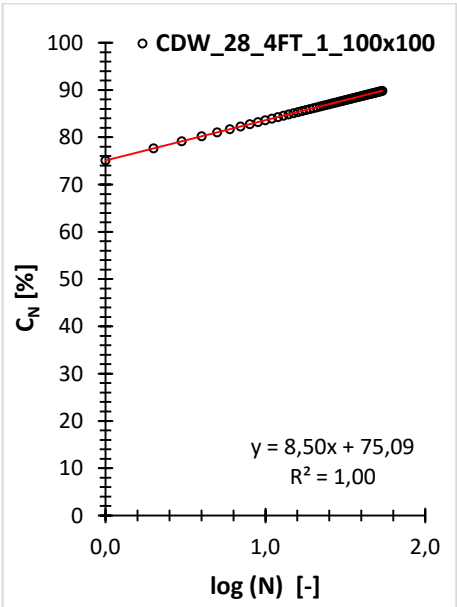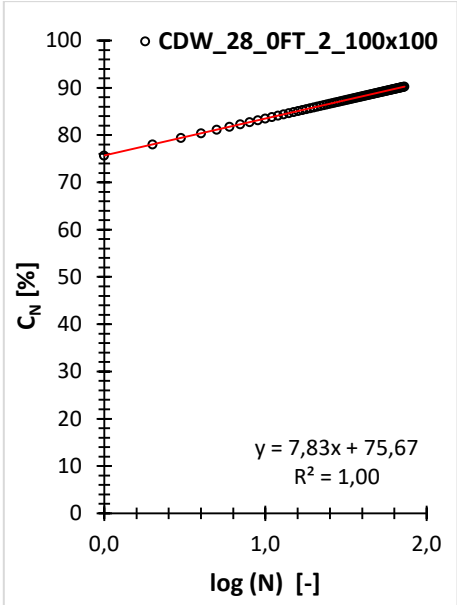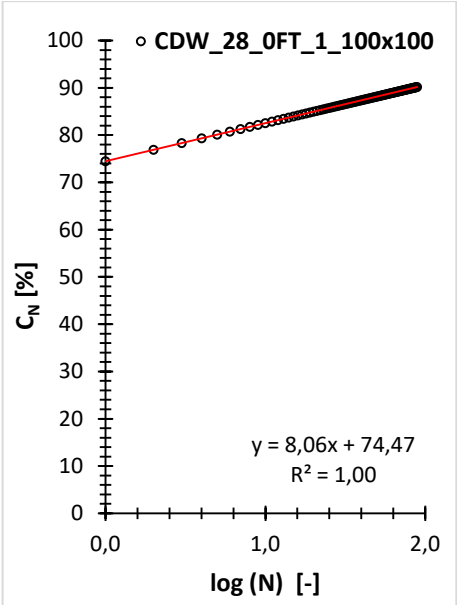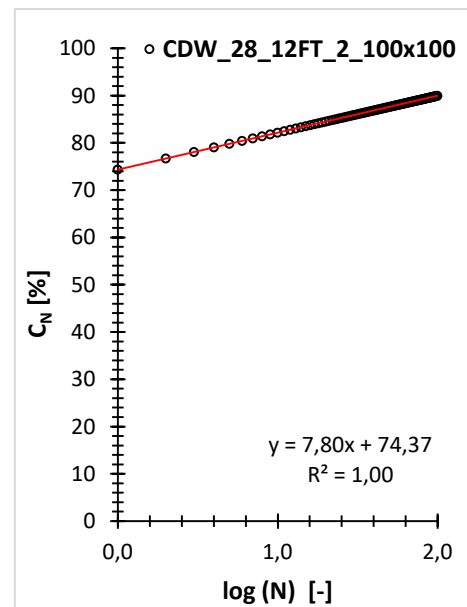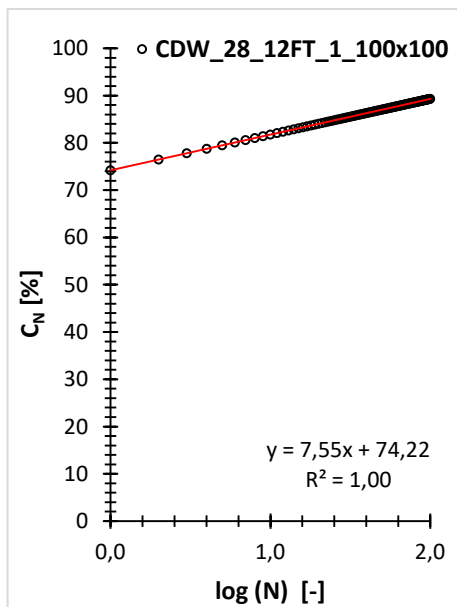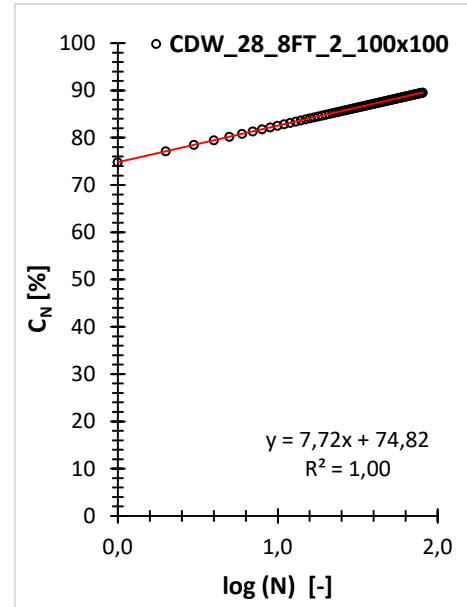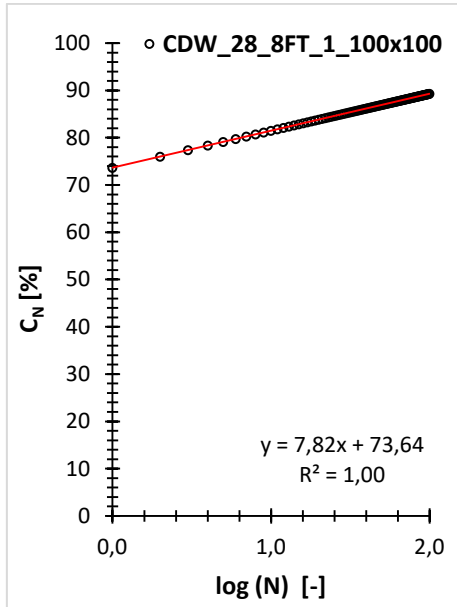
Allegato 14: Curve di lavorabilità dei CDWA stagionati 45 giorni 100x100 mm

CDW_45_0FT_1_100x100

$y = 7{,}46x + 74{,}89$
$R^2 = 1{,}00$

CDW_45_0FT_2_100x100

$y = 7{,}34x + 75{,}04$
$R^2 = 1{,}00$

CDW_45_4FT_1_100x100

$y = 7{,}77x + 74{,}49$
$R^2 = 1{,}00$

CDW_45_4FT_2_100x100

$y = 7{,}09x + 74{,}89$
$R^2 = 1{,}00$

Top-left chart: CDW_45_8FT_1_100x100

C_N [%] vs log (N) [-]

y = 7,16x + 75,11
R² = 1,00

Top-right chart: CDW_45_8FT_2_100x100

C_N [%] vs log (N) [-]

y = 7,67x + 75,75
R² = 1,00

Bottom-left chart: CDW_45_12FT_1_100x100

C_N [%] vs log (N) [-]

y = 7,77x + 74,69
R² = 1,00

Bottom-right chart: CDW_45_12FT_2_100x100

C_N [%] vs log (N) [-]

y = 7,92x + 75,46
R² = 1,00

Allegato 15: Curve di lavorabilità dei CDWA stagionati 60 giorni 100x100 mm

○ CDW_60_0FT_1_100x100

$y = 7,98x + 74,90$
$R^2 = 1,00$

○ CDW_60_0FT_2_100x100

$y = 7,80x + 73,75$
$R^2 = 1,00$

○ CDW_60_4FT_1_100x100

$y = 7,66x + 72,94$
$R^2 = 1,00$

○ CDW_60_4FT_2_100x100

$y = 7,93x + 74,70$
$R^2 = 1,00$

CDW_60_8FT_1_100x100

$y = 7{,}83x + 74{,}76$
$R^2 = 1{,}00$

CDW_60_8FT_2_100x100

$y = 7{,}73x + 74{,}72$
$R^2 = 1{,}00$

CDW_60_12FT_1_100x100

$y = 8{,}09x + 74{,}27$
$R^2 = 1{,}00$

CDW_60_12FT_2_100x100

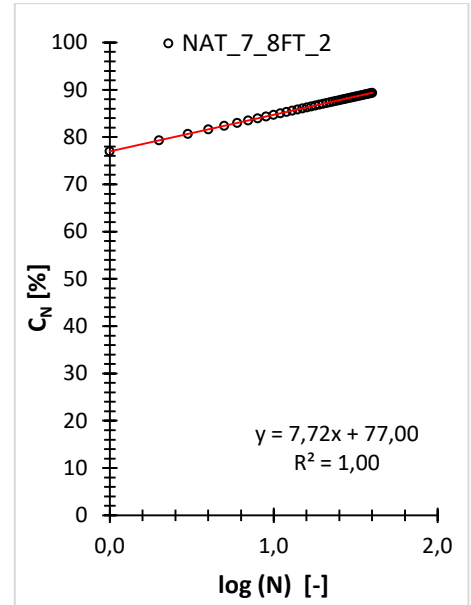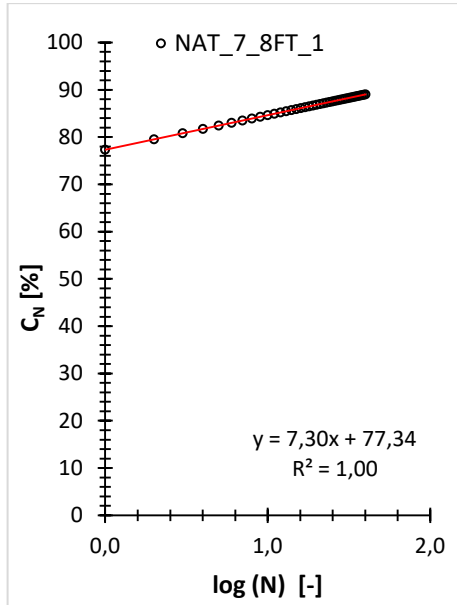$y = 7{,}80x + 74{,}75$
$R^2 = 1{,}00$

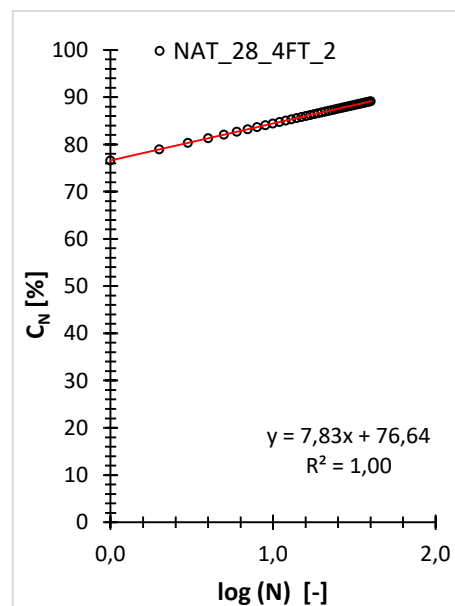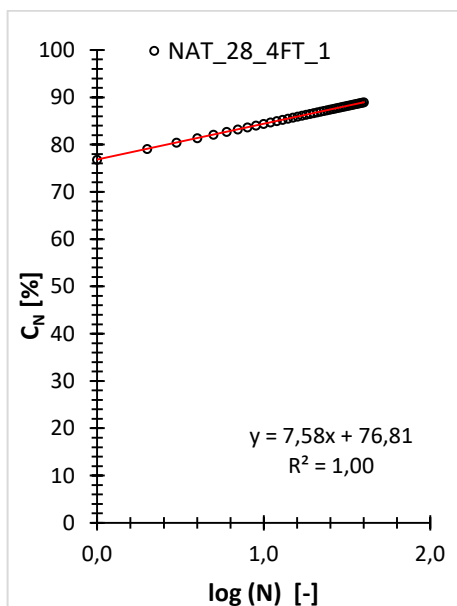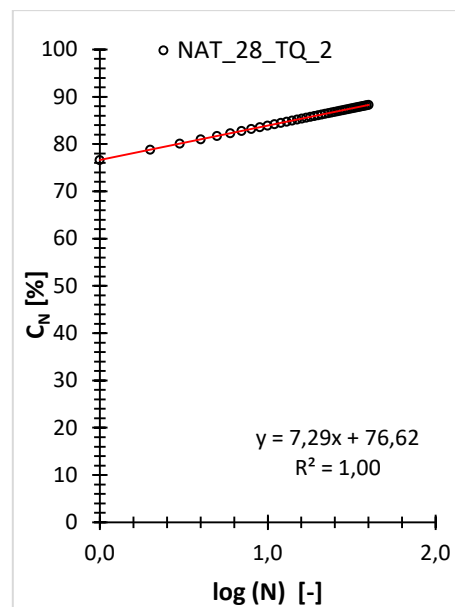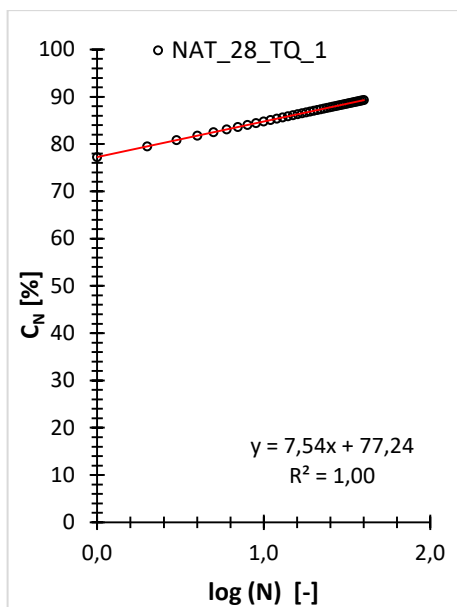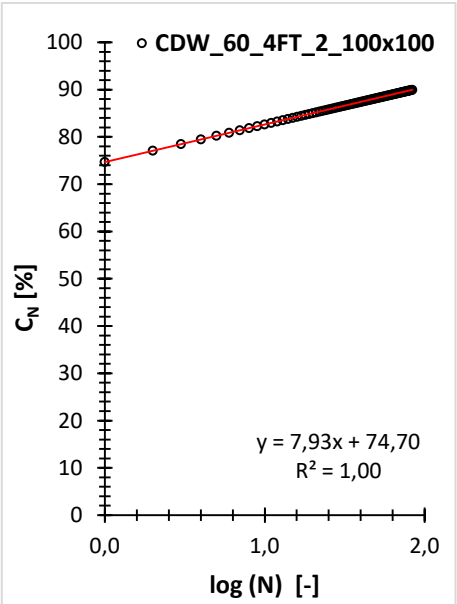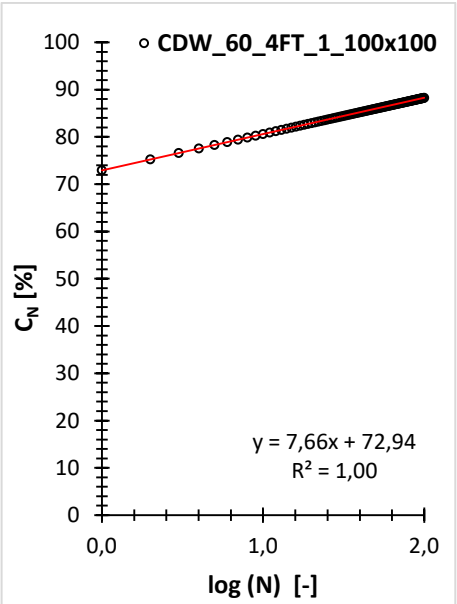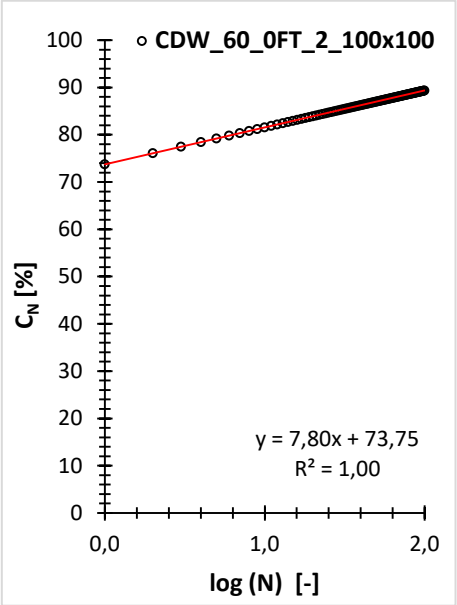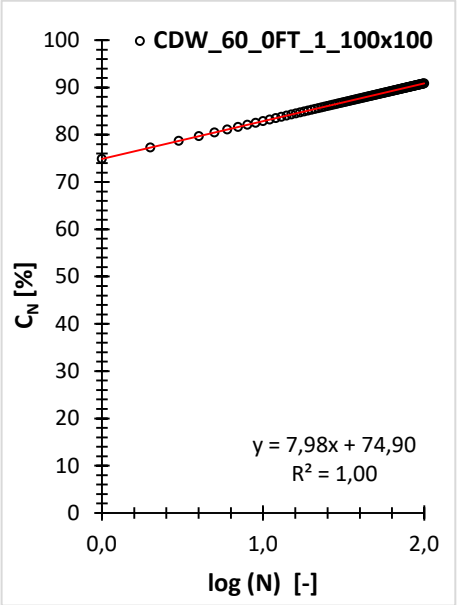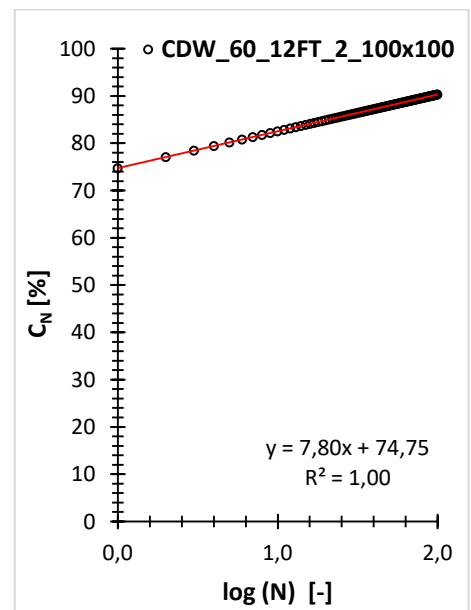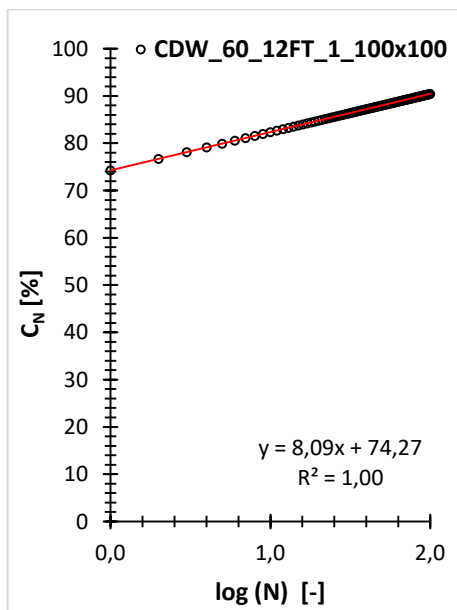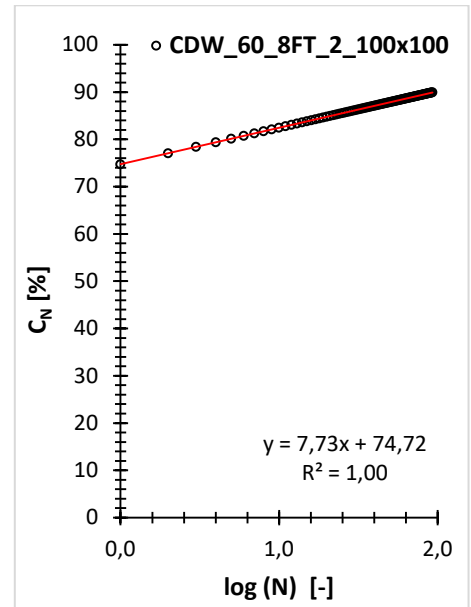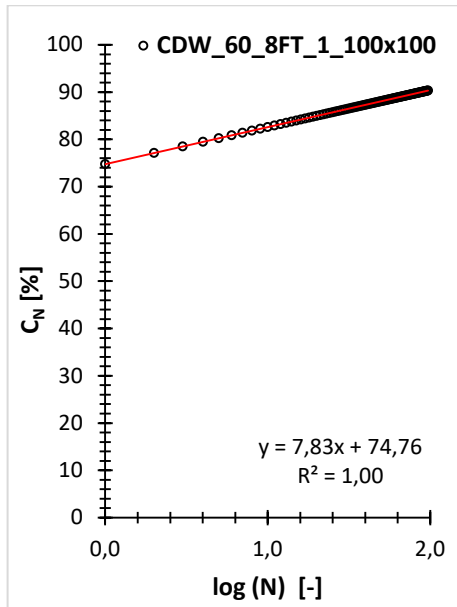# Allegato 16: Tabella dei coefficienti di lavorabilità dei campioni di NAT 100x100 mm

Stagionatura	Degrado termico	Campione	C_1	k	$\%C_{100}$
7 giorni	0 cicli di gelo/disgelo	1	77,57	7,76	93,09
		2	76,48	7,59	91,65
	4 cicli di gelo/disgelo	1	76,35	7,74	91,83
		2	77,03	7,78	92,58
	8 cicli di gelo/disgelo	1	77,23	8,07	93,36
		2	77,51	8,05	93,61
	12 cicli di gelo/disgelo	1	77,26	7,53	92,31
		2	77,15	7,65	92,44
28 giorni	0 cicli di gelo/disgelo	1	76,99	7,61	92,21
		2	77,41	7,69	92,79
	4 cicli di gelo/disgelo	1	77,65	8,00	93,65
		2	77,94	7,58	93,09
	8 cicli di gelo/disgelo	1	76,97	7,61	92,19
		2	77,74	7,84	93,41
	12 cicli di gelo/disgelo	1	77,37	8,01	93,38
		2	77,87	7,49	92,84

Allegato 17: Curve di lavorabilità dei NAT stagionati 7 giorni 100x100 mm

NAT_7_0FT_1_100x100

$y = 7,76x + 77,57$
$R^2 = 1,00$

NAT_7_0FT_2_100x100

$y = 7,58x + 76,48$
$R^2 = 1,00$

NAT_7_4FT_1_100x100

$y = 7,74x + 76,35$
$R^2 = 1,00$

NAT_7_4FT_2_100x100

$y = 7,77x + 77,03$
$R^2 = 1,00$

Top-left chart: NAT_7_8FT_1_100x100

$y = 8{,}06x + 77{,}23$
$R^2 = 1{,}00$

Axes: C_N [%] vs log (N) [-]

Top-right chart: NAT_7_8FT_2_100x100

$y = 8{,}05x + 77{,}51$
$R^2 = 1{,}00$

Axes: C_N [%] vs log (N) [-]

Bottom-left chart: NAT_7_12FT_1_100x100

$y = 7{,}52x + 77{,}26$
$R^2 = 1{,}00$

Axes: C_N [%] vs log (N) [-]

Bottom-right chart: NAT_7_12FT_2_100x100

$y = 7{,}65x + 77{,}15$
$R^2 = 1{,}00$

Axes: C_N [%] vs log (N) [-]

Allegato 18: Curve di lavorabilità dei NAT stagionati 28 giorni 100x100 mm

NAT_28_0FT_1_100x100
$y = 7,61x + 76,99$
$R^2 = 1,00$

NAT_28_0FT_2_100x100
$y = 7,69x + 77,41$
$R^2 = 1,00$

NAT_28_4FT_1_100x100
$y = 8,00x + 77,65$
$R^2 = 1,00$

NAT_28_4FT_2_100x100
$y = 7,57x + 77,94$
$R^2 = 1,00$

NAT_28_8FT_1_100x100

C_N [%] vs log (N) [-]

$y = 7{,}61x + 76{,}97$
$R^2 = 1{,}00$

NAT_28_8FT_2_100x100

$y = 7{,}84x + 77{,}74$
$R^2 = 1{,}00$

NAT_28_12FT_1_100x100

$y = 8{,}00x + 77{,}37$
$R^2 = 1{,}00$

NAT_28_12FT_2_100x100

$y = 7{,}48x + 77{,}87$
$R^2 = 1{,}00$
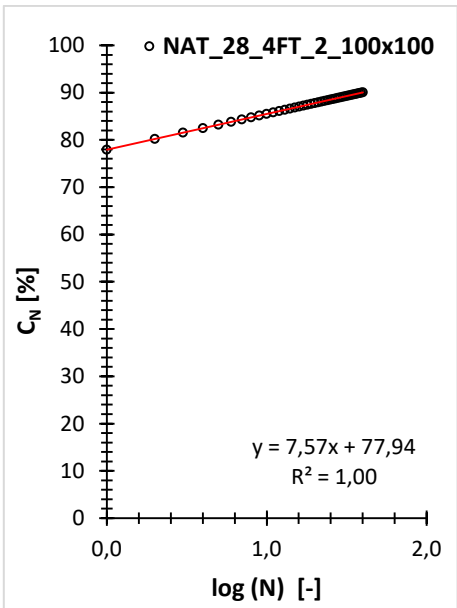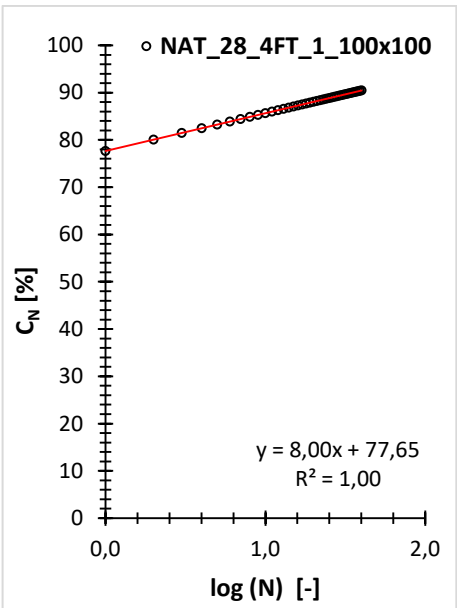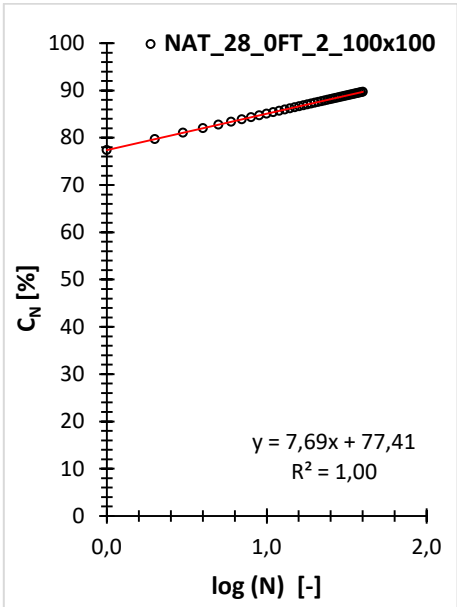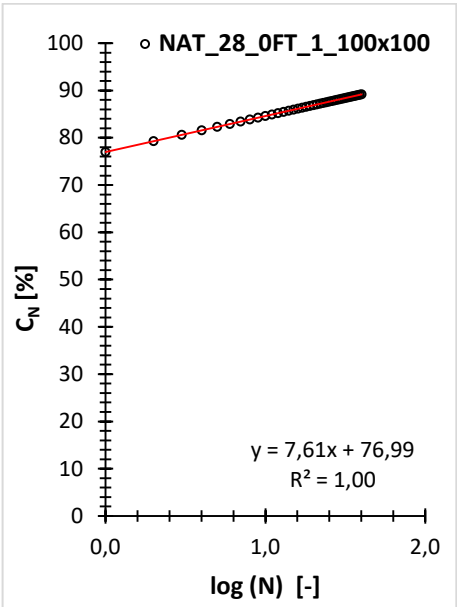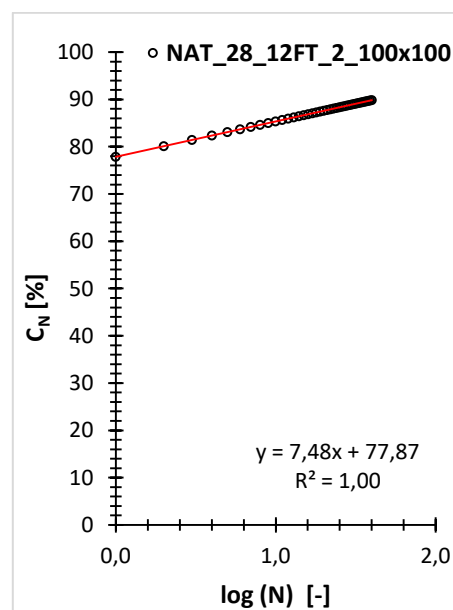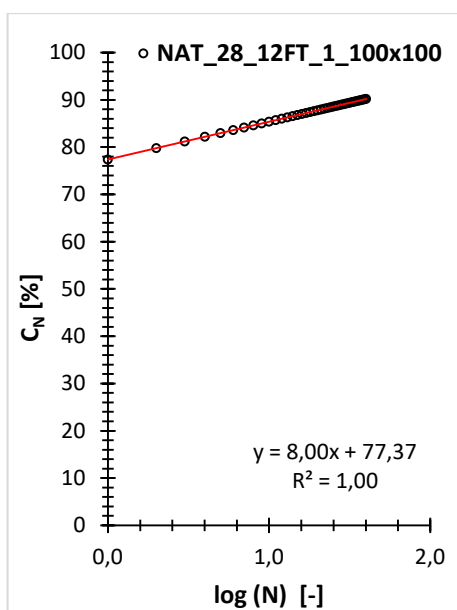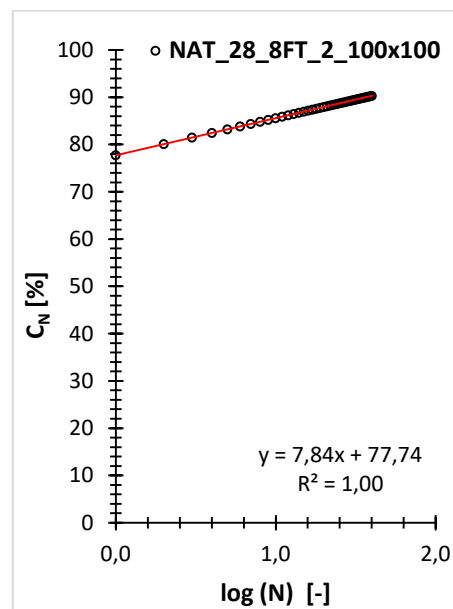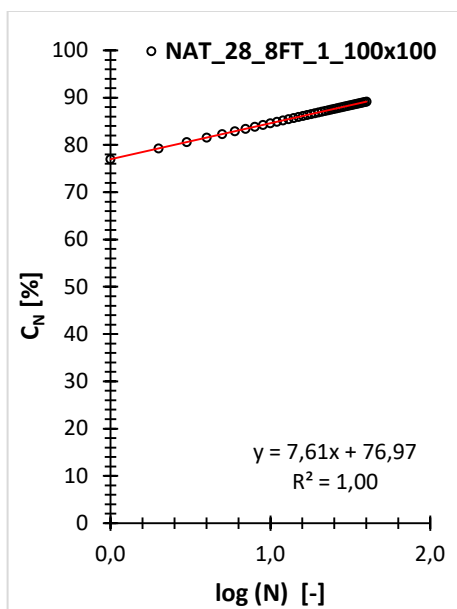
Allegato 19: Andamento della temperatura durante i cicli di gelo/disgelo
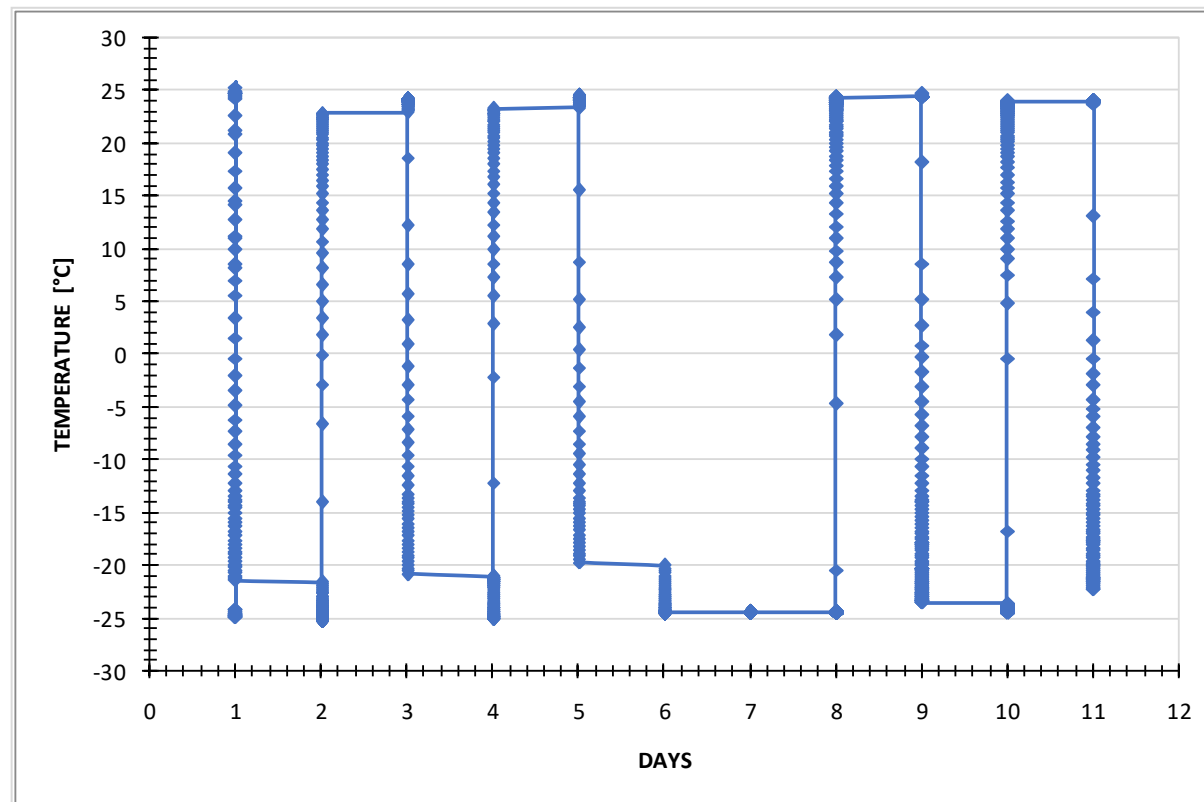
Allegato 20: Tabelle di modulo resiliente per CDWA stagionati 7 giorni

	Load. Seq.	ε_p	σ_{conf}	$P_{v,max}$	$P_{v,cycle}$	$P_{v,cont}$	$\sigma_{v,max}$	$\sigma_{v,cycle}$	$\sigma_{v,cont}$	Δ_r	ε_r	$MR_{,obs}$	σ_1	σ_3	σ_d	σ_{oct}	τ_{oct}	ϑ	I_2	I_3
	[-]	[%]	[MPa]	[kN]	[kN]	[kN]	[kPa]	[kPa]	[kPa]	[mm]	[mm/mm]	[MPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[MPa]	[MPa]
TQ_1	1	0.0	19.96	0.1570	0.1416	0.0154	19.98	18.02	1.94	0.01126	0.00006	321.3	37.98	19.96	18.02	25.97	8.49	77.90	1.915	15.140
	2	0.0	20.08	0.3220	0.2906	0.0316	40.98	36.98	3.98	0.02048	0.00010	360.7	57.06	20.08	36.98	32.41	17.43	97.22	2.695	23.020
	3	0.0	20.04	0.4868	0.4324	0.0548	62.00	55.04	6.96	0.02630	0.00013	418.0	75.08	20.04	55.04	38.39	25.95	115.16	3.412	30.181
	4	0.0	34.00	0.2672	0.2430	0.0240	33.96	30.96	3.04	0.01630	0.00008	379.9	64.96	34.00	30.96	44.32	14.59	132.96	5.573	75.094
	5	0.0	34.00	0.5340	0.4866	0.0472	67.94	61.96	6.00	0.02605	0.00013	475.5	95.96	34.00	61.96	54.65	29.21	163.96	7.681	110.937
	6	0.0	34.06	0.8086	0.7304	0.0780	102.92	93.00	9.92	0.03494	0.00017	532.1	127.06	34.06	93.00	65.06	43.84	195.18	9.816	147.421
	7	0.0	67.94	0.5340	0.4862	0.0478	68.00	61.90	6.10	0.02257	0.00011	548.1	129.84	67.94	61.90	88.57	29.18	265.72	22.259	599.323
	8	0.0	68.02	1.0764	0.9744	0.1020	137.04	124.04	12.98	0.03964	0.00020	626.0	192.06	68.02	124.04	109.37	58.47	328.10	30.755	888.628
	9	0.0	67.94	1.6180	1.4610	0.1572	206.04	186.04	20.02	0.05523	0.00028	673.1	253.98	67.94	186.04	129.95	87.70	389.86	39.127	1172.387
	10	0.0	103.08	0.5338	0.4862	0.0476	67.96	61.92	6.06	0.02144	0.00011	578.1	165.00	103.08	61.92	123.72	29.19	371.16	44.642	1753.216
	11	0.0	102.88	0.8086	0.7314	0.0772	102.92	93.12	9.80	0.03044	0.00015	612.3	196.00	102.88	93.12	133.92	43.90	401.76	50.913	2074.540
	12	0.0	103.06	1.6182	1.4590	0.1594	206.02	185.78	20.26	0.05254	0.00026	707.1	288.84	103.06	185.78	164.99	87.58	494.96	70.157	3067.876
	13	0.0	137.00	0.8090	0.7296	0.0792	103.04	92.94	10.10	0.02856	0.00014	651.6	229.94	137.00	92.94	167.98	43.81	503.94	81.773	4315.739
	14	0.0	137.04	1.0762	0.9738	0.1020	137.00	123.98	13.02	0.03622	0.00018	684.0	261.02	137.04	123.98	178.37	58.44	535.10	90.320	4901.949
	15	0.0	136.98	2.1602	1.9484	0.2120	275.02	248.10	26.94	0.06694	0.00033	741.0	385.08	136.98	248.10	219.68	116.96	659.04	124.260	7225.460
TQ_2	1	0.0	20.02	0.1570	0.1406	0.0164	20.00	17.94	2.08	0.01223	0.00006	292.8	37.96	20.02	17.94	26.00	8.46	78.00	1.921	15.232
	2	0.0	19.72	0.3222	0.2902	0.0320	41.02	36.96	4.06	0.02141	0.00011	346.2	56.68	19.72	36.96	32.04	17.42	96.12	2.625	22.058
	3	0.0	19.98	0.4866	0.4316	0.0550	61.96	54.98	7.00	0.02714	0.00014	405.0	74.96	19.98	54.98	38.31	25.92	114.92	3.396	29.984
	4	0.0	34.00	0.2670	0.2436	0.0236	34.00	31.00	3.00	0.01680	0.00008	368.9	65.00	34.00	31.00	44.33	14.61	133.00	5.576	75.147
	5	0.0	34.04	0.5340	0.4870	0.0468	68.00	62.02	5.96	0.02716	0.00014	456.3	96.06	34.04	62.02	54.71	29.24	164.14	7.699	111.329
	6	0.0	33.98	0.8092	0.7304	0.0786	103.02	93.02	10.02	0.03504	0.00018	531.0	127.00	33.98	93.02	64.99	43.85	194.96	9.786	146.699
	7	0.0	67.96	0.5342	0.4870	0.0472	68.00	62.00	6.00	0.02354	0.00012	527.4	129.96	67.96	62.00	88.63	29.23	265.88	22.284	600.333
	8	0.0	68.02	1.0758	0.9740	0.1020	137.00	124.00	12.98	0.03940	0.00020	629.6	192.02	68.02	124.00	109.35	58.45	328.06	30.749	888.448
	9	0.0	67.96	1.6182	1.4612	0.1570	206.02	186.02	20.00	0.05486	0.00027	678.0	253.98	67.96	186.02	129.97	87.69	389.90	39.140	1173.093
	10	0.0	103.08	0.5340	0.4868	0.0472	68.00	62.00	6.00	0.02247	0.00011	552.9	165.08	103.08	62.00	123.75	29.23	371.24	44.659	1754.080
	11	0.0	103.00	0.8088	0.7304	0.0782	103.00	93.04	9.98	0.03018	0.00015	615.3	196.04	103.00	93.04	134.01	43.86	402.04	50.993	2079.816
	12	0.0	102.98	1.6180	1.4608	0.1572	206.00	185.96	20.04	0.05226	0.00026	711.0	288.94	102.98	185.96	164.97	87.66	494.90	70.115	3064.175
	13	0.0	137.04	0.8094	0.7308	0.0784	103.02	93.06	10.04	0.02905	0.00015	640.2	230.10	137.04	93.06	168.06	43.87	504.18	81.846	4321.283
	14	0.0	137.00	1.0760	0.9738	0.1020	137.00	123.96	12.96	0.03650	0.00018	679.0	260.96	137.00	123.96	178.32	58.44	534.96	90.272	4897.967
	15	0.0	137.00	2.1600	1.9478	0.2122	275.06	248.00	27.04	0.06489	0.00032	764.1	385.00	137.00	248.00	219.67	116.91	659.00	124.259	7226.094

	Load. Seq.	ε_p	σ_{conf}	$P_{v,max}$	$P_{v,cycle}$	$P_{v,cont}$	$\sigma_{v,max}$	$\sigma_{v,cycle}$	$\sigma_{v,cont}$	Δ_r	ε_r	$MR_{,obs}$	σ_1	σ_3	σ_d	σ_{oct}	τ_{oct}	ϑ	I_2	I_3
	[-]	[%]	[MPa]	[kN]	[kN]	[kN]	[kPa]	[kPa]	[kPa]	[mm]	[mm/mm]	[MPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[MPa]	[MPa]
3FT_1	1	-0.1	20.06	0.1580	0.1398	0.0184	20.12	17.78	2.34	0.02040	0.00010	174.4	37.84	20.06	17.78	25.99	8.38	77.96	1.921	15.243
	2	-0.1	19.88	0.3224	0.2908	0.0314	41.04	37.04	4.00	0.04307	0.00022	172.1	56.92	19.88	37.04	32.23	17.46	96.68	2.659	22.501
	3	-0.1	20.04	0.4870	0.4320	0.0550	62.00	55.02	6.98	0.05634	0.00028	195.2	75.06	20.04	55.02	38.38	25.94	115.14	3.410	30.146
	4	-0.1	33.84	0.2672	0.2430	0.0240	34.00	30.96	3.06	0.03121	0.00016	199.1	64.80	33.84	30.96	44.16	14.59	132.48	5.531	74.209
	5	-0.1	33.94	0.5340	0.4870	0.0472	68.02	62.00	6.00	0.05453	0.00027	227.6	95.94	33.94	62.00	54.61	29.23	163.82	7.665	110.543
	6	-0.1	33.96	0.8090	0.7300	0.0788	102.98	92.94	10.04	0.07191	0.00036	258.2	126.90	33.96	92.94	64.94	43.81	194.82	9.773	146.411
	7	-0.1	68.06	0.5340	0.4866	0.0476	68.00	61.94	6.08	0.04167	0.00021	297.0	130.00	68.06	61.94	88.71	29.20	266.12	22.328	602.219
	8	-0.1	67.96	1.0760	0.9736	0.1026	137.00	123.94	13.04	0.07169	0.00036	345.7	191.90	67.96	123.94	109.27	58.43	327.82	30.702	886.339
	9	-0.1	68.10	1.6174	1.4614	0.1562	205.94	186.06	19.86	0.10107	0.00051	367.9	254.16	68.10	186.06	130.12	87.71	390.36	39.255	1178.757
	10	-0.1	102.96	0.5344	0.4868	0.0474	68.02	61.98	6.06	0.03502	0.00018	353.8	164.94	102.96	61.98	123.62	29.22	370.86	44.565	1748.500
	11	-0.1	103.06	0.8090	0.7310	0.0780	103.00	93.08	9.92	0.04907	0.00025	379.5	196.14	103.06	93.08	134.09	43.88	402.26	51.050	2083.283
	12	-0.1	103.02	1.6178	1.4618	0.1560	205.98	186.10	19.88	0.08851	0.00044	420.3	289.12	103.02	186.10	165.05	87.73	495.16	70.183	3068.479
	13	-0.1	136.96	0.8090	0.7294	0.0800	103.06	92.86	10.18	0.04416	0.00022	420.2	229.82	136.96	92.86	167.91	43.77	503.74	81.711	4311.000
	14	0.0	136.98	1.0760	0.9750	0.1012	137.02	124.14	12.88	0.05592	0.00028	443.7	261.12	136.98	124.14	178.36	58.52	535.08	90.300	4899.535
	15	0.0	136.98	2.1598	1.9488	0.2110	275.00	248.14	26.88	0.10384	0.00052	477.4	385.12	136.98	248.14	219.69	116.97	659.08	124.271	7226.226
3FT_2	1	0.0	19.82	0.1572	0.1410	0.0162	20.00	17.96	2.08	0.02061	0.00010	174.5	37.78	19.82	17.96	25.81	8.47	77.42	1.891	14.859
	2	0.0	20.00	0.3220	0.2906	0.0318	41.00	36.94	4.06	0.03903	0.00020	189.2	56.94	20.00	36.94	32.31	17.41	96.94	2.678	22.795
	3	0.0	20.18	0.4870	0.4322	0.0548	61.98	55.00	6.96	0.05125	0.00026	214.8	75.18	20.18	55.00	38.51	25.93	115.54	3.443	30.653
	4	0.0	33.96	0.2672	0.2438	0.0234	34.02	31.04	3.00	0.02945	0.00015	210.9	65.00	33.96	31.04	44.31	14.63	132.92	5.569	74.989
	5	0.0	33.82	0.5338	0.4866	0.0472	67.98	61.96	6.00	0.04961	0.00025	249.7	95.78	33.82	61.96	54.47	29.21	163.42	7.623	109.575
	6	0.0	33.92	0.8086	0.7304	0.0788	103.02	92.96	9.98	0.06664	0.00033	279.1	126.88	33.92	92.96	64.91	43.82	194.72	9.758	145.999
	7	0.0	68.02	0.5342	0.4872	0.0466	67.98	62.06	5.96	0.04077	0.00020	304.3	130.08	68.02	62.06	88.71	29.26	266.12	22.323	601.872
	8	0.0	68.00	1.0764	0.9736	0.1026	137.04	123.96	13.04	0.07258	0.00036	341.4	191.96	68.00	123.96	109.32	58.44	327.96	30.731	887.629
	9	0.0	68.00	1.6178	1.4610	0.1566	205.98	186.04	19.96	0.10275	0.00051	362.0	254.04	68.00	186.04	130.01	87.70	390.04	39.174	1174.714
	10	0.0	103.00	0.5338	0.4856	0.0482	67.98	61.84	6.16	0.03709	0.00019	333.2	164.84	103.00	61.84	123.61	29.15	370.84	44.566	1748.792
	11	0.0	103.04	0.8092	0.7316	0.0776	103.06	93.16	9.88	0.05167	0.00026	360.4	196.20	103.04	93.16	134.09	43.92	402.28	51.050	2083.100
	12	0.0	102.86	1.6178	1.4610	0.1572	206.00	186.02	19.98	0.09298	0.00047	399.9	288.88	102.86	186.02	164.87	87.69	494.60	70.009	3056.424
	13	0.0	137.00	0.8092	0.7304	0.0788	103.02	93.02	10.02	0.04715	0.00024	394.1	230.02	137.00	93.02	168.01	43.85	504.02	81.795	4317.249
	14	0.0	137.02	1.0756	0.9746	0.1008	136.98	124.10	12.86	0.06072	0.00030	408.8	261.12	137.02	124.10	178.39	58.50	535.16	90.332	4902.408
	15	0.0	137.00	2.1600	1.9476	0.2126	275.04	247.98	27.06	0.11036	0.00055	449.1	384.98	137.00	247.98	219.66	116.90	658.98	124.254	7225.702

	Load. Seq.	ε_p	σ_{conf}	$P_{v,max}$	$P_{v,cycle}$	$P_{v,cont}$	$\sigma_{v,max}$	$\sigma_{v,cycle}$	$\sigma_{v,cont}$	Δ_r	ε_r	$MR_{,obs}$	σ_1	σ_3	σ_d	σ_{oct}	τ_{oct}	ϑ	I_2	I_3
	[-]	[%]	[MPa]	[kN]	[kN]	[kN]	[kPa]	[kPa]	[kPa]	[mm]	[mm/mm]	[MPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[MPa]	[MPa]
4FT_1	1	0.1	19.80	0.1570	0.1420	0.0150	19.98	18.06	1.94	0.03002	0.00015	123.9	37.86	19.80	18.06	25.82	8.51	77.46	1.892	14.863
	2	0.1	19.74	0.3222	0.2910	0.0312	41.04	37.02	3.98	0.05465	0.00027	136.1	56.76	19.74	37.02	32.08	17.45	96.24	2.632	22.164
	3	0.1	19.98	0.4872	0.4324	0.0548	62.02	55.06	6.98	0.07146	0.00036	154.1	75.04	19.98	55.06	38.33	25.96	115.00	3.398	29.961
	4	0.1	34.22	0.2670	0.2442	0.0230	34.00	31.12	2.94	0.03886	0.00019	160.3	65.34	34.22	31.12	44.59	14.67	133.78	5.644	76.542
	5	0.1	33.90	0.5340	0.4856	0.0484	68.02	61.86	6.16	0.06516	0.00033	189.9	95.76	33.90	61.86	54.52	29.16	163.56	7.642	110.080
	6	0.1	33.96	0.8092	0.7308	0.0786	103.02	93.00	10.00	0.08829	0.00044	210.8	126.96	33.96	93.00	64.96	43.84	194.88	9.778	146.486
	7	0.1	67.92	0.5340	0.4866	0.0474	68.02	61.98	6.06	0.05058	0.00025	245.0	129.90	67.92	61.98	88.58	29.22	265.74	22.259	599.261
	8	0.1	67.98	1.0758	0.9746	0.1012	137.02	124.10	12.88	0.08903	0.00045	279.0	192.08	67.98	124.10	109.35	58.50	328.04	30.737	887.676
	9	0.1	67.98	1.6180	1.4616	0.1564	206.02	186.06	19.96	0.12522	0.00063	297.2	254.04	67.98	186.06	130.00	87.71	390.00	39.161	1174.010
	10	0.1	102.96	0.5344	0.4846	0.0496	68.04	61.70	6.36	0.04373	0.00022	282.9	164.66	102.96	61.70	123.53	29.09	370.58	44.508	1745.521
	11	0.1	103.10	0.8090	0.7302	0.0788	103.02	92.98	10.04	0.06069	0.00030	306.9	196.08	103.10	92.98	134.09	43.83	402.28	51.062	2084.352
	12	0.1	102.96	1.6182	1.4600	0.1580	206.04	185.92	20.12	0.10772	0.00054	345.2	288.88	102.96	185.92	164.93	87.64	494.80	70.087	3062.378
	13	0.1	136.98	0.8090	0.7314	0.0776	102.96	93.10	9.90	0.05525	0.00028	337.2	230.08	136.98	93.10	168.01	43.89	504.04	81.796	4317.129
	14	0.1	136.94	1.0766	0.9744	0.1018	137.06	124.10	12.92	0.06899	0.00034	359.9	261.04	136.94	124.10	178.31	58.50	534.92	90.246	4895.183
	15	0.2	137.06	2.1598	1.9480	0.2116	274.96	248.02	26.92	0.12470	0.00062	397.8	385.08	137.06	248.02	219.73	116.92	659.20	124.344	7233.931
4FT_2	1	0.1	19.92	0.1572	0.1404	0.0166	20.02	17.88	2.12	0.02479	0.00012	146.1	37.80	19.92	17.88	25.88	8.43	77.64	1.905	15.041
	2	0.1	20.06	0.3220	0.2916	0.0304	41.00	37.16	3.84	0.04960	0.00025	149.8	57.22	20.06	37.16	32.45	17.52	97.34	2.698	23.037
	3	0.1	20.06	0.4872	0.4318	0.0552	61.98	55.02	6.98	0.06583	0.00033	167.2	75.08	20.06	55.02	38.40	25.94	115.20	3.415	30.232
	4	0.1	34.00	0.2668	0.2434	0.0232	33.98	31.00	2.96	0.03637	0.00018	171.0	65.00	34.00	31.00	44.33	14.61	133.00	5.577	75.175
	5	0.1	34.06	0.5338	0.4868	0.0470	67.96	62.00	5.98	0.06251	0.00031	198.5	96.06	34.06	62.00	54.73	29.23	164.18	7.704	111.460
	6	0.1	34.08	0.8090	0.7314	0.0778	103.04	93.14	9.92	0.08361	0.00042	222.8	127.22	34.08	93.14	65.13	43.91	195.38	9.833	147.794
	7	0.1	68.12	0.5340	0.4874	0.0466	68.00	62.06	5.92	0.04707	0.00024	263.6	130.18	68.12	62.06	88.81	29.26	266.42	22.376	604.095
	8	0.1	68.06	1.0760	0.9738	0.1016	137.00	124.04	12.94	0.08228	0.00041	301.5	192.10	68.06	124.04	109.41	58.47	328.22	30.781	889.859
	9	0.2	68.00	1.6174	1.4606	0.1572	205.96	185.98	19.98	0.11551	0.00058	322.0	253.98	68.00	185.98	129.99	87.67	389.98	39.165	1174.422
	10	0.2	103.04	0.5342	0.4870	0.0472	68.04	62.02	6.04	0.03984	0.00020	311.5	165.06	103.04	62.02	123.71	29.24	371.14	44.633	1752.481
	11	0.2	102.96	0.8090	0.7304	0.0788	103.00	93.00	10.00	0.05496	0.00027	338.5	195.96	102.96	93.00	133.96	43.84	401.88	50.953	2077.369
	12	0.2	103.02	1.6176	1.4604	0.1570	205.96	185.94	20.04	0.09884	0.00049	376.4	288.96	103.02	185.94	165.00	87.65	495.00	70.151	3066.807
	13	0.2	137.00	0.8090	0.7304	0.0786	103.04	93.00	10.04	0.04909	0.00025	379.0	230.00	137.00	93.00	168.00	43.84	504.00	81.789	4316.873
	14	0.2	137.00	1.0760	0.9738	0.1024	137.00	123.96	13.04	0.06162	0.00031	402.0	260.96	137.00	123.96	178.32	58.44	534.96	90.272	4897.976
	15	0.2	136.96	2.1598	1.9476	0.2124	275.02	247.98	27.04	0.11472	0.00057	432.5	384.94	136.96	247.98	219.62	116.90	658.86	124.201	7220.751

	Load. Seq.	ε_p	σ_{conf}	$P_{v,max}$	$P_{v,cycle}$	$P_{v,cont}$	$\sigma_{v,max}$	$\sigma_{v,cycle}$	$\sigma_{v,cont}$	Δ_r	ε_r	$MR_{,obs}$	σ_1	σ_3	σ_d	σ_{oct}	τ_{oct}	ϑ	I_2	I_3
	[-]	[%]	[MPa]	[kN]	[kN]	[kN]	[kPa]	[kPa]	[kPa]	[mm]	[mm/mm]	[MPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[MPa]	[MPa]
8FT_1	1	0.0	20.12	0.1570	0.1418	0.0150	19.98	18.06	1.92	0.02138	0.00011	169.6	38.18	20.12	18.06	26.14	8.51	78.42	1.942	15.469
	2	0.0	20.00	0.3220	0.2908	0.0316	41.00	37.00	4.02	0.03971	0.00020	186.5	57.00	20.00	37.00	32.33	17.44	97.00	2.680	22.811
	3	0.0	20.00	0.4870	0.4322	0.0546	61.98	55.04	6.96	0.05419	0.00027	203.2	75.04	20.00	55.04	38.35	25.95	115.04	3.402	30.034
	4	0.0	34.00	0.2670	0.2432	0.0236	34.00	31.00	3.00	0.02850	0.00014	217.6	65.00	34.00	31.00	44.33	14.61	133.00	5.577	75.162
	5	0.0	33.96	0.5340	0.4866	0.0474	68.02	61.98	6.04	0.05165	0.00026	240.0	95.94	33.96	61.98	54.62	29.22	163.86	7.670	110.675
	6	0.0	34.14	0.8090	0.7306	0.0782	103.00	93.02	9.96	0.07218	0.00036	257.8	127.16	34.14	93.02	65.15	43.85	195.44	9.849	148.262
	7	0.0	67.98	0.5338	0.4864	0.0472	68.00	61.96	6.06	0.04068	0.00020	304.7	129.94	67.98	61.96	88.63	29.21	265.90	22.288	600.506
	8	0.0	68.04	1.0758	0.9734	0.1022	137.00	123.98	13.00	0.07621	0.00038	325.2	192.02	68.04	123.98	109.37	58.44	328.10	30.760	888.952
	9	0.1	67.96	1.6178	1.4610	0.1572	206.00	186.04	19.98	0.11009	0.00055	337.9	254.00	67.96	186.04	129.97	87.70	389.92	39.143	1173.153
	10	0.1	103.00	0.5342	0.4862	0.0480	68.02	61.94	6.10	0.03649	0.00018	339.7	164.94	103.00	61.94	123.65	29.20	370.94	44.587	1749.855
	11	0.1	103.00	0.8090	0.7308	0.0784	103.00	93.04	9.96	0.05297	0.00027	351.2	196.04	103.00	93.04	134.01	43.86	402.04	50.993	2079.795
	12	0.1	102.98	1.6180	1.4608	0.1568	206.02	186.00	20.02	0.09836	0.00049	378.1	288.98	102.98	186.00	164.98	87.68	494.94	70.123	3064.601
	13	0.1	137.02	0.8090	0.7306	0.0784	103.00	93.02	9.98	0.04765	0.00024	390.5	230.04	137.02	93.02	168.03	43.85	504.08	81.815	4318.919
	14	0.1	136.96	1.0762	0.9736	0.1024	137.04	123.96	13.06	0.06170	0.00031	401.7	260.92	136.96	123.96	178.28	58.44	534.84	90.229	4894.368
	15	0.1	137.08	2.1598	1.9486	0.2112	275.00	248.08	26.90	0.11654	0.00058	425.7	385.16	137.08	248.08	219.77	116.95	659.32	124.386	7237.526
8FT_2	1	0.0	20.00	0.1570	0.1414	0.0154	20.00	18.02	1.98	0.02194	0.00011	167.7	38.02	20.00	18.02	26.01	8.49	78.02	1.923	15.263
	2	0.0	20.00	0.3222	0.2898	0.0318	41.02	36.94	4.08	0.03781	0.00019	195.4	56.94	20.00	36.94	32.31	17.41	96.94	2.680	22.833
	3	0.0	20.16	0.4868	0.4324	0.0544	62.02	55.04	6.94	0.05039	0.00025	218.9	75.20	20.16	55.04	38.51	25.95	115.52	3.439	30.578
	4	0.0	34.14	0.2670	0.2450	0.0222	33.96	31.16	2.82	0.02684	0.00013	232.6	65.30	34.14	31.16	44.53	14.69	133.58	5.625	76.160
	5	0.0	34.16	0.5338	0.4876	0.0464	68.04	62.08	5.88	0.04778	0.00024	259.9	96.24	34.16	62.08	54.85	29.26	164.56	7.744	112.383
	6	0.0	33.98	0.8092	0.7302	0.0790	103.00	92.98	10.06	0.06591	0.00033	282.3	126.96	33.98	92.98	64.97	43.83	194.92	9.784	146.638
	7	0.0	68.04	0.5338	0.4874	0.0464	67.98	62.06	5.92	0.03725	0.00019	333.4	130.10	68.04	62.06	88.73	29.26	266.18	22.334	602.303
	8	0.0	67.98	1.0764	0.9740	0.1022	137.06	124.02	13.02	0.06861	0.00034	361.4	192.00	67.98	124.02	109.32	58.46	327.96	30.726	887.324
	9	0.0	67.90	1.6176	1.4598	0.1580	205.98	185.88	20.10	0.09972	0.00050	372.6	253.78	67.90	185.88	129.86	87.62	389.58	39.074	1170.077
	10	0.0	103.04	0.5340	0.4872	0.0468	67.96	62.02	5.96	0.03293	0.00016	376.5	165.06	103.04	62.02	123.71	29.24	371.14	44.634	1752.570
	11	0.0	103.04	0.8092	0.7274	0.0818	103.00	92.62	10.42	0.04613	0.00023	400.9	195.66	103.04	92.62	133.91	43.66	401.74	50.940	2077.493
	12	0.0	102.98	1.6178	1.4604	0.1574	205.98	185.98	20.02	0.08784	0.00044	423.2	288.96	102.98	185.98	164.97	87.67	494.92	70.119	3064.391
	13	0.0	137.00	0.8088	0.7320	0.0768	103.00	93.22	9.80	0.04241	0.00021	439.9	230.22	137.00	93.22	168.07	43.94	504.22	81.849	4321.012
	14	0.0	136.98	1.0756	0.9734	0.1020	136.98	123.96	13.00	0.05468	0.00027	453.4	260.94	136.98	123.96	178.30	58.44	534.90	90.251	4896.171
	15	0.1	136.98	2.1600	1.9476	0.2120	275.00	247.98	27.00	0.10534	0.00053	470.6	384.96	136.98	247.98	219.64	116.90	658.92	124.227	7223.243

	Load. Seq.	ε_p	σ_{conf}	$P_{v,max}$	$P_{v,cycle}$	$P_{v,cont}$	$\sigma_{v,max}$	$\sigma_{v,cycle}$	$\sigma_{v,cont}$	Δ_r	ε_r	$MR_{,obs}$	σ_1	σ_3	σ_d	σ_{oct}	τ_{oct}	ϑ	I_2	I_3
	[-]	[%]	[MPa]	[kN]	[kN]	[kN]	[kPa]	[kPa]	[kPa]	[mm]	[mm/mm]	[MPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[MPa]	[MPa]
12FT_1	1	0.0	19.78	0.1728	0.1402	0.0324	21.98	17.88	4.10	0.01903	0.00010	189.2	37.66	19.78	17.88	25.74	8.43	77.22	1.882	14.762
	2	0.0	19.98	0.3224	0.2902	0.0320	41.02	36.96	4.04	0.03722	0.00019	198.8	56.94	19.98	36.96	32.30	17.42	96.90	2.676	22.762
	3	0.0	19.90	0.4870	0.4324	0.0548	62.00	55.04	6.96	0.05185	0.00026	212.1	74.94	19.90	55.04	38.25	25.95	114.74	3.380	29.717
	4	0.0	34.08	0.2668	0.2438	0.0228	33.96	31.04	2.94	0.02673	0.00013	232.3	65.12	34.08	31.04	44.43	14.63	133.28	5.600	75.641
	5	0.0	34.14	0.5338	0.4866	0.0474	67.98	61.96	6.02	0.04891	0.00024	253.3	96.10	34.14	61.96	54.79	29.21	164.38	7.728	112.025
	6	0.0	34.06	0.8088	0.7308	0.0780	102.96	93.04	9.94	0.06826	0.00034	272.4	127.10	34.06	93.04	65.07	43.86	195.22	9.819	147.495
	7	0.0	67.98	0.5342	0.4872	0.0474	68.04	62.02	6.02	0.03780	0.00019	328.2	130.00	67.98	62.02	88.65	29.24	265.96	22.296	600.768
	8	0.0	68.00	1.0760	0.9742	0.1020	137.00	124.02	12.94	0.07010	0.00035	353.5	192.02	68.00	124.02	109.34	58.46	328.02	30.739	887.904
	9	0.0	68.08	1.6180	1.4608	0.1574	206.02	185.98	20.04	0.10337	0.00052	359.6	254.06	68.08	185.98	130.07	87.67	390.22	39.228	1177.553
	10	0.0	103.00	0.5342	0.4878	0.0466	68.04	62.10	5.92	0.03333	0.00017	372.8	165.10	103.00	62.10	123.70	29.27	371.10	44.620	1751.546
	11	0.0	102.98	0.8088	0.7310	0.0778	102.98	93.08	9.90	0.04729	0.00024	393.6	196.06	102.98	93.08	134.01	43.88	402.02	50.985	2079.193
	12	0.1	103.06	1.6180	1.4608	0.1574	206.00	186.00	19.98	0.08918	0.00045	417.1	289.06	103.06	186.00	165.06	87.68	495.18	70.202	3070.231
	13	0.1	136.98	0.8094	0.7304	0.0788	103.00	92.98	10.06	0.04248	0.00021	437.8	229.96	136.98	92.98	167.97	43.83	503.92	81.763	4314.869
	14	0.1	137.04	1.0758	0.9738	0.1022	137.02	123.96	13.02	0.05444	0.00027	454.9	261.00	137.04	123.96	178.36	58.44	535.08	90.315	4901.575
	15	0.1	136.98	2.1604	1.9484	0.2120	275.02	248.08	26.98	0.10495	0.00053	472.3	385.06	136.98	248.08	219.67	116.95	659.02	124.255	7225.117
12FT_2	1	0.1	19.96	0.1650	0.1410	0.0240	21.00	17.98	3.02	0.02575	0.00013	139.7	37.94	19.96	17.98	25.95	8.48	77.86	1.913	15.128
	2	0.1	19.88	0.3220	0.2904	0.0316	41.00	37.00	4.00	0.04969	0.00025	148.9	56.88	19.88	37.00	32.21	17.44	96.64	2.658	22.508
	3	0.2	19.88	0.4868	0.4320	0.0550	62.00	55.00	7.02	0.06675	0.00033	164.8	74.88	19.88	55.00	38.21	25.93	114.64	3.373	29.608
	4	0.2	34.10	0.2672	0.2434	0.0234	34.00	31.00	3.00	0.03532	0.00018	175.6	65.10	34.10	31.00	44.43	14.61	133.30	5.603	75.722
	5	0.2	33.96	0.5340	0.4874	0.0468	68.02	62.04	5.98	0.06293	0.00031	197.1	96.00	33.96	62.04	54.64	29.25	163.92	7.674	110.720
	6	0.2	34.06	0.8092	0.7312	0.0782	103.02	93.06	9.96	0.08610	0.00043	216.0	127.12	34.06	93.06	65.08	43.87	195.24	9.820	147.518
	7	0.2	68.02	0.5420	0.4868	0.0550	69.00	62.00	7.00	0.04627	0.00023	268.0	130.02	68.02	62.00	88.69	29.23	266.06	22.315	601.585
	8	0.2	68.02	1.0758	0.9740	0.1022	137.00	124.00	13.02	0.08751	0.00044	283.2	192.02	68.02	124.00	109.35	58.45	328.06	30.749	888.435
	9	0.2	68.02	1.6180	1.4610	0.1570	206.02	186.02	20.00	0.12830	0.00064	289.9	254.04	68.02	186.02	130.03	87.69	390.08	39.187	1175.419
	10	0.2	103.02	0.5338	0.4868	0.0472	68.00	61.98	6.02	0.04049	0.00020	305.7	165.00	103.02	61.98	123.68	29.22	371.04	44.610	1751.167
	11	0.2	103.00	0.8088	0.7306	0.0786	103.00	93.00	9.98	0.05788	0.00029	321.2	196.00	103.00	93.00	134.00	43.84	402.00	50.985	2079.370
	12	0.2	102.98	1.6180	1.4610	0.1570	206.02	186.02	20.02	0.10755	0.00054	345.6	289.00	102.98	186.02	164.99	87.69	494.96	70.127	3064.832
	13	0.3	137.02	0.8090	0.7300	0.0788	102.96	92.96	10.02	0.04979	0.00025	373.2	229.98	137.02	92.96	168.01	43.82	504.02	81.798	4317.767
	14	0.3	137.02	1.0764	0.9742	0.1016	137.04	124.06	12.98	0.06452	0.00032	384.6	261.08	137.02	124.06	178.37	58.48	535.12	90.321	4901.654
	15	0.3	136.98	2.1596	1.9478	0.2120	274.96	247.98	27.00	0.12368	0.00062	400.8	384.96	136.98	247.98	219.64	116.90	658.92	124.227	7223.220

Allegato 21: Tabelle di modulo resiliente per CDWA stagionati 28 giorni

	Load. Seq.	ε_p	σ_{conf}	$P_{v,max}$	$P_{v,cycle}$	$P_{v,cont}$	$\sigma_{v,max}$	$\sigma_{v,cycle}$	$\sigma_{v,cont}$	Δ_r	ε_r	$MR_{,obs}$	σ_1	σ_3	σ_d	σ_{oct}	τ_{oct}	ϑ	I_2	I_3
	[-]	[%]	[MPa]	[kN]	[kN]	[kN]	[kPa]	[kPa]	[kPa]	[mm]	[mm/mm]	[MPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[MPa]	[MPa]
TQ_1	1	0.1	19.88	0.1574	0.1414	0.0158	20.04	18.02	2.04	0.03323	0.00017	113.9	37.90	19.88	18.02	25.89	8.49	77.66	1.902	14.978
	2	0.1	19.90	0.3218	0.2904	0.0314	40.98	37.00	4.04	0.03085	0.00015	240.2	56.90	19.90	37.00	32.23	17.44	96.70	2.661	22.533
	3	0.1	20.06	0.4866	0.4322	0.0542	61.94	55.04	6.92	0.03527	0.00018	312.3	75.10	20.06	55.04	38.41	25.95	115.22	3.416	30.227
	4	0.1	33.96	0.2672	0.2440	0.0232	34.00	31.06	2.98	0.02934	0.00015	211.8	65.02	33.96	31.06	44.31	14.64	132.94	5.570	74.995
	5	0.1	34.08	0.5338	0.4872	0.0466	67.96	62.02	5.96	0.03604	0.00018	343.9	96.10	34.08	62.02	54.75	29.24	164.26	7.712	111.628
	6	0.1	34.02	0.8090	0.7310	0.0780	103.00	93.08	9.92	0.04506	0.00023	413.5	127.10	34.02	93.08	65.05	43.88	195.14	9.806	147.150
	7	0.1	68.00	0.5338	0.4864	0.0478	68.02	61.92	6.10	0.03063	0.00015	404.2	129.92	68.00	61.92	88.64	29.19	265.92	22.293	600.754
	8	0.1	68.00	1.0762	0.9744	0.1016	137.00	124.06	12.96	0.04716	0.00024	525.9	192.06	68.00	124.06	109.35	58.48	328.06	30.744	888.097
	9	0.1	67.98	1.6184	1.4610	0.1574	206.04	186.00	20.02	0.06106	0.00031	609.5	253.98	67.98	186.00	129.98	87.68	389.94	39.153	1173.732
	10	0.1	102.98	0.5342	0.4868	0.0476	68.00	61.98	6.02	0.02921	0.00015	424.5	164.96	102.98	61.98	123.64	29.22	370.92	44.580	1749.387
	11	0.1	103.04	0.8084	0.7298	0.0788	102.96	92.92	10.00	0.03808	0.00019	488.3	195.96	103.04	92.92	134.01	43.80	402.04	51.001	2080.626
	12	0.1	103.02	1.6176	1.4606	0.1566	205.94	186.02	19.94	0.05823	0.00029	638.8	289.04	103.02	186.02	165.03	87.69	495.08	70.167	3067.623
	13	0.1	137.00	0.8088	0.7296	0.0794	102.98	92.88	10.10	0.03571	0.00018	520.2	229.88	137.00	92.88	167.96	43.78	503.88	81.756	4314.620
	14	0.1	137.00	1.0760	0.9726	0.1036	137.02	123.84	13.16	0.04261	0.00021	581.0	260.84	137.00	123.84	178.28	58.38	534.84	90.239	4895.706
	15	0.1	136.98	2.1598	1.9472	0.2124	274.98	247.92	27.06	0.06848	0.00034	724.1	384.90	136.98	247.92	219.62	116.87	658.86	124.211	7222.093
TQ_2	1	0.1	20.10	0.1562	0.1402	0.0156	19.90	17.88	2.04	0.03321	0.00017	109.3	37.98	20.10	17.88	26.06	8.43	78.18	1.931	15.353
	2	0.1	19.96	0.3218	0.2908	0.0314	40.98	37.02	3.96	0.02672	0.00013	277.7	56.98	19.96	37.02	32.30	17.45	96.90	2.674	22.716
	3	0.1	20.14	0.4872	0.4322	0.0550	62.00	55.00	6.98	0.03274	0.00016	336.5	75.14	20.14	55.00	38.47	25.93	115.42	3.433	30.510
	4	0.1	34.06	0.2672	0.2434	0.0238	34.00	30.98	3.02	0.02307	0.00012	268.6	65.04	34.06	30.98	44.39	14.60	133.16	5.591	75.480
	5	0.1	33.92	0.5340	0.4868	0.0472	67.98	61.98	6.02	0.03138	0.00016	395.4	95.90	33.92	61.98	54.58	29.22	163.74	7.657	110.355
	6	0.1	34.00	0.8088	0.7304	0.0786	102.98	93.00	9.98	0.04082	0.00020	456.0	127.00	34.00	93.00	65.00	43.84	195.00	9.792	146.829
	7	0.1	68.02	0.5340	0.4866	0.0474	67.98	61.96	6.04	0.02545	0.00013	487.5	129.98	68.02	61.96	88.67	29.21	266.02	22.310	601.409
	8	0.1	68.02	1.0760	0.9748	0.1014	137.02	124.08	12.92	0.04249	0.00021	584.0	192.10	68.02	124.08	109.38	58.49	328.14	30.760	888.810
	9	0.1	67.98	1.6180	1.4608	0.1570	206.00	185.98	20.04	0.05936	0.00030	626.3	253.96	67.98	185.98	129.97	87.67	389.92	39.150	1173.625
	10	0.1	103.02	0.5340	0.4866	0.0470	68.00	62.00	6.00	0.02366	0.00012	523.8	165.02	103.02	62.00	123.69	29.23	371.06	44.614	1751.377
	11	0.1	102.98	0.8090	0.7304	0.0786	103.02	93.02	9.98	0.03155	0.00016	588.7	196.00	102.98	93.02	133.99	43.85	401.96	50.973	2078.569
	12	0.1	103.02	1.6182	1.4608	0.1572	206.02	186.00	20.02	0.05470	0.00027	679.9	289.02	103.02	186.00	165.02	87.68	495.06	70.163	3067.405
	13	0.1	136.98	0.8088	0.7298	0.0794	103.02	92.92	10.08	0.02957	0.00015	628.2	229.90	136.98	92.92	167.95	43.80	503.86	81.747	4313.751
	14	0.1	136.94	1.0760	0.9730	0.1028	137.00	123.92	13.12	0.03704	0.00019	669.1	260.86	136.94	123.92	178.25	58.42	534.74	90.197	4891.810
	15	0.1	137.02	2.1600	1.9470	0.2130	275.00	247.90	27.12	0.06620	0.00033	748.5	384.92	137.02	247.90	219.65	116.86	658.96	124.258	7226.679

	Load. Seq.	ε_p	σ_{conf}	$P_{v,max}$	$P_{v,cycle}$	$P_{v,cont}$	$\sigma_{v,max}$	$\sigma_{v,cycle}$	$\sigma_{v,cont}$	Δ_r	ε_r	$MR_{,obs}$	σ_1	σ_3	σ_d	σ_{oct}	τ_{oct}	ϑ	I_2	I_3
	[-]	[%]	[MPa]	[kN]	[kN]	[kN]	[kPa]	[kPa]	[kPa]	[mm]	[mm/mm]	[MPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[MPa]	[MPa]
4FT_1	1	0.0	19.94	0.1572	0.1416	0.0156	20.02	18.04	2.00	0.03250	0.00016	111.2	37.98	19.94	18.04	25.95	8.50	77.86	1.913	15.122
	2	0.0	20.10	0.3222	0.2910	0.0310	41.02	37.04	3.98	0.03791	0.00019	195.6	57.14	20.10	37.04	32.45	17.46	97.34	2.702	23.108
	3	0.1	19.92	0.4872	0.4316	0.0554	62.00	54.96	7.04	0.04474	0.00022	245.9	74.88	19.92	54.96	38.24	25.91	114.72	3.380	29.728
	4	0.1	34.02	0.2670	0.2438	0.0236	34.00	31.00	2.98	0.03229	0.00016	192.0	65.02	34.02	31.00	44.35	14.61	133.06	5.582	75.270
	5	0.1	33.94	0.5342	0.4868	0.0472	68.04	62.00	6.02	0.04576	0.00023	271.1	95.94	33.94	62.00	54.61	29.23	163.82	7.665	110.552
	6	0.1	33.90	0.8086	0.7306	0.0782	103.00	93.02	9.96	0.05708	0.00029	326.0	126.92	33.90	93.02	64.91	43.85	194.72	9.755	145.877
	7	0.1	67.98	0.5340	0.4864	0.0478	68.02	61.92	6.06	0.03957	0.00020	312.9	129.90	67.98	61.92	88.62	29.19	265.86	22.283	600.320
	8	0.1	68.12	1.0760	0.9738	0.1020	136.98	124.00	12.98	0.06298	0.00032	393.7	192.12	68.12	124.00	109.45	58.45	328.36	30.815	891.530
	9	0.1	68.02	1.6178	1.4608	0.1572	206.00	186.00	20.00	0.08525	0.00043	436.3	254.02	68.02	186.00	130.02	87.68	390.06	39.184	1175.314
	10	0.1	103.06	0.5338	0.4868	0.0472	67.98	61.98	6.00	0.03873	0.00019	320.1	165.04	103.06	61.98	123.72	29.22	371.16	44.640	1752.982
	11	0.1	103.00	0.8090	0.7306	0.0786	102.98	92.98	9.98	0.05033	0.00025	369.4	195.98	103.00	92.98	133.99	43.83	401.98	50.981	2079.201
	12	0.1	102.94	1.6178	1.4610	0.1564	206.00	186.06	19.92	0.08018	0.00040	464.1	289.00	102.94	186.06	164.96	87.71	494.88	70.096	3062.440
	13	0.1	136.98	0.8088	0.7302	0.0782	102.98	93.00	10.00	0.04795	0.00024	387.9	229.98	136.98	93.00	167.98	43.84	503.94	81.769	4315.244
	14	0.1	137.02	1.0758	0.9744	0.1018	137.02	124.06	12.96	0.05793	0.00029	428.4	261.08	137.02	124.06	178.37	58.48	535.12	90.321	4901.669
	15	0.1	137.00	2.1598	1.9478	0.2118	274.98	248.02	26.96	0.09680	0.00048	512.2	385.02	137.00	248.02	219.67	116.92	659.02	124.265	7226.449
4FT_2	1	0.0	19.98	0.1572	0.1418	0.0154	20.00	18.00	1.98	0.02924	0.00015	123.8	37.98	19.98	18.00	25.98	8.49	77.94	1.917	15.168
	2	0.0	19.96	0.3220	0.2908	0.0314	41.00	36.98	4.02	0.03694	0.00018	200.8	56.94	19.96	36.98	32.29	17.43	96.86	2.672	22.707
	3	0.0	19.78	0.4870	0.4320	0.0548	61.98	54.98	7.00	0.04400	0.00022	250.2	74.76	19.78	54.98	38.11	25.92	114.32	3.350	29.277
	4	0.1	34.02	0.2670	0.2432	0.0236	33.98	31.00	3.02	0.02946	0.00015	210.5	65.02	34.02	31.00	44.35	14.61	133.06	5.582	75.271
	5	0.1	33.90	0.5340	0.4870	0.0472	68.02	62.00	6.00	0.04401	0.00022	282.2	95.90	33.90	62.00	54.57	29.23	163.70	7.652	110.228
	6	0.1	34.08	0.8090	0.7306	0.0782	102.96	93.00	10.00	0.05756	0.00029	323.7	127.08	34.08	93.00	65.08	43.84	195.24	9.824	147.618
	7	0.1	68.02	0.5342	0.4870	0.0468	68.02	62.02	5.96	0.03482	0.00017	356.8	130.04	68.02	62.02	88.69	29.24	266.08	22.317	601.668
	8	0.1	68.00	1.0762	0.9742	0.1020	137.04	124.04	13.00	0.05974	0.00030	415.9	192.04	68.00	124.04	109.35	58.47	328.04	30.741	887.995
	9	0.1	67.98	1.6178	1.4610	0.1570	206.02	186.00	20.00	0.08441	0.00042	441.5	253.98	67.98	186.00	129.98	87.68	389.94	39.152	1173.715
	10	0.1	103.00	0.5344	0.4872	0.0470	68.04	62.04	6.00	0.03162	0.00016	392.7	165.04	103.00	62.04	123.68	29.25	371.04	44.607	1750.911
	11	0.1	102.98	0.8094	0.7304	0.0788	103.02	93.00	10.04	0.04278	0.00021	435.4	195.98	102.98	93.00	133.98	43.84	401.94	50.969	2078.346
	12	0.1	103.02	1.6178	1.4612	0.1568	206.00	186.06	19.94	0.07621	0.00038	488.6	289.08	103.02	186.06	165.04	87.71	495.12	70.175	3068.045
	13	0.1	136.96	0.8092	0.7302	0.0790	103.04	92.98	10.06	0.04003	0.00020	465.5	229.94	136.96	92.98	167.95	43.83	503.86	81.743	4313.249
	14	0.1	137.02	1.0758	0.9744	0.1012	136.98	124.10	12.88	0.05028	0.00025	494.0	261.12	137.02	124.10	178.39	58.50	535.16	90.332	4902.405
	15	0.1	137.02	2.1600	1.9472	0.2124	274.96	247.92	27.04	0.09136	0.00046	543.2	384.94	137.02	247.92	219.66	116.87	658.98	124.263	7227.050

	Load. Seq.	ε_p	σ_{conf}	$P_{v,max}$	$P_{v,cycle}$	$P_{v,cont}$	$\sigma_{v,max}$	$\sigma_{v,cycle}$	$\sigma_{v,cont}$	Δ_r	ε_r	$MR_{,obs}$	σ_1	σ_3	σ_d	σ_{oct}	τ_{oct}	ϑ	I_2	I_3
	[-]	[%]	[MPa]	[kN]	[kN]	[kN]	[kPa]	[kPa]	[kPa]	[mm]	[mm/mm]	[MPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[MPa]	[MPa]
8FT_1	1	0.0	20.04	0.1574	0.1422	0.0154	20.06	18.06	1.98	0.03558	0.00018	101.9	38.10	20.04	18.06	26.06	8.51	78.18	1.929	15.312
	2	0.0	19.92	0.3222	0.2902	0.0316	41.02	36.98	4.06	0.04698	0.00023	157.5	56.90	19.92	36.98	32.25	17.43	96.74	2.664	22.593
	3	0.0	19.90	0.4872	0.4322	0.0552	62.04	55.02	7.02	0.05442	0.00027	202.4	74.92	19.90	55.02	38.24	25.94	114.72	3.378	29.669
	4	0.0	33.90	0.2668	0.2432	0.0236	33.96	30.94	3.02	0.03788	0.00019	163.8	64.84	33.90	30.94	44.21	14.59	132.64	5.546	74.531
	5	0.0	34.00	0.5342	0.4870	0.0468	67.96	62.00	5.98	0.05291	0.00026	234.8	96.00	34.00	62.00	54.67	29.23	164.00	7.684	110.992
	6	0.0	34.08	0.8088	0.7304	0.0782	102.98	93.02	10.00	0.06483	0.00032	287.0	127.10	34.08	93.02	65.09	43.85	195.26	9.825	147.629
	7	0.0	68.00	0.5342	0.4866	0.0476	67.98	61.94	6.06	0.04624	0.00023	268.5	129.94	68.00	61.94	88.65	29.20	265.94	22.296	600.842
	8	0.0	68.00	1.0762	0.9742	0.1018	137.02	124.04	13.00	0.06879	0.00034	360.4	192.04	68.00	124.04	109.35	58.47	328.04	30.741	887.995
	9	0.0	67.98	1.6182	1.4612	0.1570	206.04	186.04	19.98	0.09047	0.00045	411.1	254.02	67.98	186.04	129.99	87.70	389.98	39.158	1173.899
	10	0.0	103.02	0.5340	0.4864	0.0474	68.00	61.94	6.04	0.04357	0.00022	284.2	164.96	103.02	61.94	123.67	29.20	371.00	44.601	1750.742
	11	0.0	103.02	0.8088	0.7310	0.0778	102.98	93.08	9.92	0.05429	0.00027	343.6	196.10	103.02	93.08	134.05	43.88	402.14	51.018	2081.231
	12	0.0	102.96	1.6180	1.4610	0.1572	206.04	186.00	20.02	0.08374	0.00042	444.2	288.96	102.96	186.00	164.96	87.68	494.88	70.103	3063.210
	13	0.0	137.06	0.8084	0.7300	0.0784	102.94	92.92	9.98	0.04977	0.00025	373.6	229.98	137.06	92.92	168.03	43.80	504.10	81.828	4320.347
	14	0.0	137.04	1.0764	0.9736	0.1026	137.04	123.96	13.08	0.05975	0.00030	415.0	261.00	137.04	123.96	178.36	58.44	535.08	90.315	4901.568
	15	0.0	136.94	2.1604	1.9466	0.2136	275.04	247.82	27.22	0.09815	0.00049	505.0	384.76	136.94	247.82	219.55	116.82	658.64	124.131	7215.247
8FT_2	1	0.1	20.16	0.1574	0.1414	0.0158	20.04	18.02	2.00	0.03541	0.00018	101.9	38.18	20.16	18.02	26.17	8.49	78.50	1.947	15.539
	2	0.1	20.06	0.3218	0.2908	0.0312	40.98	37.02	3.98	0.04432	0.00022	167.2	57.08	20.06	37.02	32.40	17.45	97.20	2.693	22.983
	3	0.1	19.88	0.4872	0.4322	0.0552	62.00	55.02	7.00	0.05194	0.00026	212.1	74.90	19.88	55.02	38.22	25.94	114.66	3.374	29.636
	4	0.1	34.06	0.2672	0.2436	0.0232	34.00	31.02	2.96	0.03625	0.00018	171.7	65.08	34.06	31.02	44.40	14.62	133.20	5.593	75.504
	5	0.1	33.98	0.5342	0.4868	0.0472	67.98	61.98	6.00	0.05105	0.00026	243.0	95.96	33.98	61.98	54.64	29.22	163.92	7.677	110.825
	6	0.1	34.10	0.8086	0.7300	0.0782	102.98	92.96	9.98	0.06452	0.00032	288.2	127.06	34.10	92.96	65.09	43.82	195.26	9.829	147.776
	7	0.1	67.98	0.5336	0.4860	0.0476	67.92	61.86	6.06	0.04125	0.00021	300.6	129.84	67.98	61.86	88.60	29.16	265.80	22.275	600.060
	8	0.1	67.96	1.0762	0.9730	0.1032	137.02	123.90	13.12	0.06664	0.00033	372.1	191.86	67.96	123.90	109.26	58.41	327.78	30.696	886.135
	9	0.1	68.08	1.6178	1.4600	0.1574	205.96	185.92	20.06	0.09256	0.00046	401.9	254.00	68.08	185.92	130.05	87.64	390.16	39.220	1177.305
	10	0.1	103.00	0.5340	0.4864	0.0480	68.00	61.90	6.08	0.03805	0.00019	327.0	164.90	103.00	61.90	123.63	29.18	370.90	44.578	1749.428
	11	0.1	103.02	0.8090	0.7300	0.0790	102.98	92.96	10.04	0.04779	0.00024	390.7	195.98	103.02	92.96	134.01	43.82	402.02	50.993	2079.956
	12	0.2	103.00	1.6180	1.4612	0.1570	206.06	186.04	20.00	0.08204	0.00041	453.8	289.04	103.00	186.04	165.01	87.70	495.04	70.151	3066.427
	13	0.2	137.00	0.8090	0.7312	0.0780	103.00	93.08	9.92	0.04410	0.00022	422.7	230.08	137.00	93.08	168.03	43.88	504.08	81.811	4318.383
	14	0.2	136.96	1.0762	0.9740	0.1022	137.04	124.02	13.00	0.05403	0.00027	459.2	260.98	136.96	124.02	178.30	58.46	534.90	90.246	4895.481
	15	0.2	136.98	2.1602	1.9476	0.2126	275.02	247.94	27.08	0.09665	0.00048	513.4	384.92	136.98	247.94	219.63	116.88	658.88	124.216	7222.479

	Load. Seq.	ε_p	σ_{conf}	$P_{v,max}$	$P_{v,cycle}$	$P_{v,cont}$	$\sigma_{v,max}$	$\sigma_{v,cycle}$	$\sigma_{v,cont}$	Δ_r	ε_r	$MR_{,obs}$	σ_1	σ_3	σ_d	σ_{oct}	τ_{oct}	ϑ	I_2	I_3
	[-]	[%]	[MPa]	[kN]	[kN]	[kN]	[kPa]	[kPa]	[kPa]	[mm]	[mm/mm]	[MPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[MPa]	[MPa]
12FT_1	1	0.1	19.94	0.1570	0.1404	0.0166	19.98	17.88	2.14	0.02507	0.00013	144.3	37.82	19.94	17.88	25.90	8.43	77.70	1.906	15.036
	2	0.1	20.04	0.3224	0.2908	0.0316	41.04	37.02	4.02	0.04563	0.00023	162.5	57.06	20.04	37.02	32.38	17.45	97.14	2.689	22.930
	3	0.1	19.98	0.4868	0.4324	0.0544	62.00	55.08	6.90	0.05701	0.00029	193.5	75.06	19.98	55.08	38.34	25.96	115.02	3.399	29.979
	4	0.1	33.98	0.2670	0.2426	0.0240	33.98	30.92	3.06	0.03618	0.00018	171.3	64.90	33.98	30.92	44.29	14.58	132.86	5.565	74.936
	5	0.1	33.98	0.5342	0.4876	0.0464	68.04	62.12	5.94	0.05942	0.00030	209.4	96.10	33.98	62.12	54.69	29.28	164.06	7.686	110.963
	6	0.1	34.02	0.8092	0.7320	0.0774	103.02	93.18	9.84	0.07497	0.00037	248.6	127.20	34.02	93.18	65.08	43.93	195.24	9.812	147.242
	7	0.1	67.96	0.5340	0.4878	0.0462	68.00	62.12	5.86	0.05278	0.00026	235.8	130.08	67.96	62.12	88.67	29.28	266.00	22.299	600.806
	8	0.1	68.04	1.0768	0.9748	0.1018	137.06	124.10	12.98	0.08428	0.00042	294.6	192.14	68.04	124.10	109.41	58.50	328.22	30.776	889.522
	9	0.2	67.94	1.6174	1.4616	0.1560	205.96	186.10	19.86	0.11253	0.00056	330.7	254.04	67.94	186.10	129.97	87.73	389.92	39.135	1172.618
	10	0.2	103.00	0.5342	0.4874	0.0462	68.00	62.10	5.92	0.05138	0.00026	242.4	165.10	103.00	62.10	123.70	29.27	371.10	44.620	1751.576
	11	0.2	103.00	0.8092	0.7328	0.0764	103.04	93.30	9.74	0.06557	0.00033	284.9	196.30	103.00	93.30	134.10	43.98	402.30	51.047	2082.594
	12	0.2	103.04	1.6178	1.4610	0.1570	206.02	186.00	20.00	0.10326	0.00052	360.5	289.04	103.04	186.00	165.04	87.68	495.12	70.183	3068.840
	13	0.2	137.00	0.8092	0.7300	0.0792	103.02	92.98	10.08	0.05642	0.00028	329.5	229.98	137.00	92.98	167.99	43.83	503.98	81.783	4316.490
	14	0.2	136.96	1.0762	0.9754	0.1010	137.04	124.18	12.88	0.06995	0.00035	355.0	261.14	136.96	124.18	178.35	58.54	535.06	90.290	4898.477
	15	0.2	137.04	2.1600	1.9492	0.2108	275.02	248.14	26.86	0.11666	0.00058	425.5	385.18	137.04	248.14	219.75	116.97	659.26	124.350	7233.687
12FT_2	1	0.1	20.10	0.1570	0.1412	0.0158	20.00	17.96	1.98	0.02186	0.00011	165.5	38.06	20.10	17.96	26.09	8.47	78.26	1.935	15.389
	2	0.2	20.04	0.3222	0.2908	0.0314	41.02	37.04	4.00	0.04056	0.00020	182.7	57.08	20.04	37.04	32.39	17.46	97.16	2.690	22.933
	3	0.2	19.96	0.4874	0.4316	0.0558	62.04	54.94	7.12	0.05378	0.00027	204.5	74.90	19.96	54.94	38.27	25.90	114.82	3.390	29.897
	4	0.2	33.94	0.2672	0.2436	0.0234	34.00	31.04	2.96	0.02906	0.00015	213.5	64.98	33.94	31.04	44.29	14.63	132.86	5.563	74.862
	5	0.2	34.06	0.5340	0.4868	0.0472	67.98	61.98	6.04	0.05224	0.00026	237.4	96.04	34.06	61.98	54.72	29.22	164.16	7.703	111.442
	6	0.2	34.00	0.8090	0.7310	0.0782	103.02	93.08	9.96	0.07017	0.00035	265.3	127.08	34.00	93.08	65.03	43.88	195.08	9.798	146.918
	7	0.2	67.96	0.5338	0.4872	0.0470	68.00	62.04	5.96	0.03950	0.00020	314.4	130.00	67.96	62.04	88.64	29.25	265.92	22.288	600.427
	8	0.2	68.00	1.0762	0.9742	0.1020	137.04	124.04	13.02	0.06967	0.00035	356.3	192.04	68.00	124.04	109.35	58.47	328.04	30.742	888.027
	9	0.2	68.02	1.6182	1.4612	0.1570	206.04	186.04	19.98	0.09941	0.00050	374.5	254.06	68.02	186.04	130.03	87.70	390.10	39.189	1175.469
	10	0.2	103.00	0.5342	0.4872	0.0468	68.02	62.04	6.00	0.03466	0.00017	358.2	165.04	103.00	62.04	123.68	29.25	371.04	44.607	1750.905
	11	0.2	103.00	0.8090	0.7308	0.0784	103.00	93.06	9.98	0.04741	0.00024	392.6	196.06	103.00	93.06	134.02	43.87	402.06	50.998	2080.026
	12	0.2	102.98	1.6180	1.4598	0.1580	206.02	185.88	20.12	0.08563	0.00043	434.1	288.86	102.98	185.88	164.94	87.62	494.82	70.098	3063.318
	13	0.2	136.98	0.8090	0.7294	0.0794	103.00	92.88	10.14	0.04288	0.00021	433.2	229.86	136.98	92.88	167.94	43.78	503.82	81.736	4313.003
	14	0.2	137.04	1.0756	0.9742	0.1016	136.98	124.06	12.94	0.05419	0.00027	458.1	261.10	137.04	124.06	178.39	58.48	535.18	90.343	4903.536
	15	0.3	136.96	2.1594	1.9484	0.2114	274.96	248.08	26.92	0.10064	0.00050	493.0	385.04	136.96	248.08	219.65	116.95	658.96	124.228	7222.599

Allegato 22: Tabelle di modulo resiliente per CDWA stagionati 45 giorni

	Load. Seq.	ε_p	σ_{conf}	$P_{v,max}$	$P_{v,cycle}$	$P_{v,cont}$	$\sigma_{v,max}$	$\sigma_{v,cycle}$	$\sigma_{v,cont}$	Δ_r	ε_r	$MR_{,obs}$	σ_1	σ_3	σ_d	σ_{oct}	τ_{oct}	ϑ	I_2	I_3
	[-]	[%]	[MPa]	[kN]	[kN]	[kN]	[kPa]	[kPa]	[kPa]	[mm]	[mm/mm]	[MPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[MPa]	[MPa]
TQ_1	1	0.0	19.94	0.1568	0.1420	0.0150	20.02	18.08	1.90	0.01256	0.00006	289.5	38.02	19.94	18.08	25.97	8.52	77.90	1.914	15.132
	2	0.0	19.92	0.3222	0.2906	0.0314	41.02	37.00	4.04	0.02250	0.00011	329.1	56.92	19.92	37.00	32.25	17.44	96.76	2.665	22.591
	3	0.0	20.18	0.4868	0.4322	0.0548	61.98	55.06	6.92	0.02963	0.00015	371.7	75.24	20.18	55.06	38.53	25.96	115.60	3.445	30.662
	4	0.0	33.94	0.2670	0.2434	0.0234	34.02	30.98	3.02	0.01679	0.00008	369.6	64.92	33.94	30.98	44.27	14.60	132.80	5.559	74.795
	5	0.0	33.84	0.5340	0.4862	0.0480	68.02	61.90	6.10	0.02897	0.00014	428.0	95.74	33.84	61.90	54.47	29.18	163.42	7.626	109.673
	6	0.0	34.02	0.8092	0.7308	0.0780	102.98	93.06	9.94	0.03884	0.00019	478.9	127.08	34.02	93.06	65.04	43.87	195.12	9.805	147.121
	7	0.0	68.00	0.5338	0.4866	0.0472	67.96	61.98	6.00	0.02602	0.00013	475.6	129.98	68.00	61.98	88.66	29.22	265.98	22.302	601.053
	8	0.0	68.02	1.0758	0.9728	0.1030	137.02	123.86	13.12	0.04392	0.00022	563.2	191.88	68.02	123.86	109.31	58.39	327.92	30.730	887.786
	9	0.0	67.94	1.6180	1.4614	0.1566	205.98	186.06	19.92	0.06120	0.00031	607.8	254.00	67.94	186.06	129.96	87.71	389.88	39.130	1172.475
	10	0.0	102.94	0.5342	0.4882	0.0460	68.04	62.14	5.86	0.02489	0.00012	499.9	165.08	102.94	62.14	123.65	29.29	370.96	44.584	1749.337
	11	0.0	102.98	0.8088	0.7316	0.0770	103.00	93.14	9.84	0.03357	0.00017	554.9	196.12	102.98	93.14	134.03	43.91	402.08	50.998	2079.809
	12	0.0	103.00	1.6186	1.4610	0.1576	206.06	186.02	20.06	0.05823	0.00029	638.4	289.02	103.00	186.02	165.01	87.69	495.02	70.147	3066.218
	13	0.0	136.98	0.8092	0.7302	0.0788	103.06	93.00	10.06	0.03194	0.00016	582.1	229.98	136.98	93.00	167.98	43.84	503.94	81.769	4315.242
	14	0.0	136.98	1.0764	0.9732	0.1032	137.06	123.88	13.16	0.04034	0.00020	614.1	260.86	136.98	123.88	178.27	58.40	534.82	90.229	4894.651
	15	0.1	137.00	2.1596	1.9476	0.2118	274.94	247.96	27.00	0.07206	0.00036	687.7	384.96	137.00	247.96	219.65	116.89	658.96	124.248	7225.315
TQ_2	1	0.0	19.98	0.1574	0.1412	0.0160	20.04	17.96	2.04	0.01482	0.00007	243.1	37.94	19.98	17.96	25.97	8.47	77.90	1.916	15.155
	2	0.1	19.86	0.3220	0.2902	0.0320	41.00	36.94	4.08	0.02574	0.00013	287.3	56.80	19.86	36.94	32.17	17.41	96.52	2.651	22.414
	3	0.1	19.94	0.4872	0.4322	0.0550	62.06	55.04	7.02	0.03381	0.00017	326.3	74.98	19.94	55.04	38.29	25.95	114.86	3.390	29.884
	4	0.1	34.18	0.2670	0.2446	0.0220	33.98	31.16	2.82	0.01993	0.00010	312.9	65.34	34.18	31.16	44.57	14.69	133.70	5.636	76.365
	5	0.1	33.90	0.5342	0.4876	0.0468	68.04	62.10	5.96	0.03332	0.00017	373.5	96.00	33.90	62.10	54.60	29.27	163.80	7.658	110.346
	6	0.1	34.12	0.8082	0.7294	0.0790	102.98	92.88	10.08	0.04362	0.00022	426.1	127.00	34.12	92.88	65.08	43.78	195.24	9.831	147.860
	7	0.1	67.94	0.5344	0.4880	0.0462	68.02	62.14	5.88	0.02806	0.00014	442.9	130.08	67.94	62.14	88.65	29.29	265.96	22.291	600.453
	8	0.1	68.00	1.0754	0.9728	0.1024	136.92	123.90	13.02	0.04848	0.00024	511.4	191.90	68.00	123.90	109.30	58.41	327.90	30.723	887.366
	9	0.1	68.06	1.6176	1.4614	0.1562	205.96	186.08	19.88	0.06723	0.00034	553.5	254.14	68.06	186.08	130.09	87.72	390.26	39.226	1177.246
	10	0.1	102.98	0.5346	0.4864	0.0482	68.06	61.92	6.14	0.02715	0.00014	456.2	164.90	102.98	61.92	123.62	29.19	370.86	44.568	1748.748
	11	0.1	103.00	0.8090	0.7306	0.0782	103.00	93.02	9.98	0.03804	0.00019	488.4	196.02	103.00	93.02	134.01	43.85	402.02	50.989	2079.583
	12	0.1	102.96	1.6178	1.4606	0.1574	205.98	185.96	20.04	0.06426	0.00032	578.6	288.92	102.96	185.96	164.95	87.66	494.84	70.095	3062.787
	13	0.1	137.00	0.8090	0.7308	0.0780	103.02	93.06	9.98	0.03596	0.00018	517.2	230.06	137.00	93.06	168.02	43.87	504.06	81.806	4318.029
	14	0.1	137.00	1.0756	0.9756	0.0998	136.98	124.24	12.70	0.04597	0.00023	540.8	261.24	137.00	124.24	178.41	58.57	535.24	90.349	4903.205
	15	0.1	137.02	2.1596	1.9474	0.2120	274.98	247.96	27.00	0.07783	0.00039	637.1	384.98	137.02	247.96	219.67	116.89	659.02	124.274	7227.811

	Load. Seq.	ε_p	σ_{conf}	$P_{v,max}$	$P_{v,cycle}$	$P_{v,cont}$	$\sigma_{v,max}$	$\sigma_{v,cycle}$	$\sigma_{v,cont}$	Δ_r	ε_r	$MR_{,obs}$	σ_1	σ_3	σ_d	σ_{oct}	τ_{oct}	ϑ	I_2	I_3
	[-]	[%]	[MPa]	[kN]	[kN]	[kN]	[kPa]	[kPa]	[kPa]	[mm]	[mm/mm]	[MPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[MPa]	[MPa]
4FT_1	1	0.0	19.90	0.1570	0.1406	0.0164	20.00	17.88	2.12	0.01923	0.00006	279.2	37.78	19.90	17.88	25.86	8.43	77.58	1.900	14.965
	2	0.0	19.88	0.3218	0.2900	0.0322	40.98	36.92	4.08	0.03600	0.00012	302.8	56.80	19.88	36.92	32.19	17.40	96.56	2.656	22.524
	3	0.0	20.32	0.4870	0.4314	0.0556	61.98	54.94	7.08	0.04555	0.00016	353.5	75.26	20.32	54.94	38.63	25.90	115.90	3.472	31.097
	4	0.0	34.18	0.2670	0.2438	0.0232	33.98	31.02	2.96	0.02744	0.00009	338.9	65.20	34.18	31.02	44.52	14.62	133.56	5.626	76.187
	5	0.0	34.00	0.5340	0.4874	0.0462	68.00	62.08	5.92	0.04443	0.00015	416.3	96.08	34.00	62.08	54.69	29.26	164.08	7.690	111.087
	6	0.0	34.04	0.8090	0.7300	0.0788	102.96	92.92	10.02	0.05722	0.00019	480.8	126.96	34.04	92.92	65.01	43.80	195.04	9.803	147.132
	7	0.0	67.98	0.5340	0.4870	0.0472	68.00	61.98	5.98	0.03526	0.00012	535.4	129.96	67.98	61.98	88.64	29.22	265.92	22.291	600.584
	8	0.0	67.96	1.0762	0.9744	0.1024	137.06	124.04	13.02	0.05687	0.00019	655.0	192.00	67.96	124.04	109.31	58.47	327.92	30.715	886.763
	9	0.0	67.88	1.6182	1.4616	0.1568	206.04	186.10	19.94	0.08172	0.00027	701.3	253.98	67.88	186.10	129.91	87.73	389.74	39.088	1170.273
	10	0.0	103.00	0.5342	0.4872	0.0472	68.00	62.00	5.98	0.03051	0.00010	614.8	165.00	103.00	62.00	123.67	29.23	371.00	44.599	1750.488
	11	0.0	103.04	0.8088	0.7304	0.0782	102.98	93.02	9.96	0.03984	0.00013	696.0	196.06	103.04	93.02	134.05	43.85	402.14	51.022	2081.662
	12	0.1	103.02	1.6178	1.4598	0.1584	206.00	185.84	20.18	0.07178	0.00024	785.7	288.86	103.02	185.84	164.97	87.61	494.90	70.130	3065.723
	13	0.1	136.98	0.8088	0.7288	0.0800	103.00	92.84	10.18	0.03574	0.00012	770.2	229.82	136.98	92.84	167.93	43.77	503.78	81.725	4312.261
	14	0.0	136.98	1.0758	0.9726	0.1032	137.00	123.84	13.18	0.04486	0.00015	812.7	260.82	136.98	123.84	178.26	58.38	534.78	90.218	4893.906
	15	0.1	136.94	2.1600	1.9464	0.2134	275.00	247.82	27.18	0.08414	0.00028	883.3	384.76	136.94	247.82	219.55	116.82	658.64	124.131	7215.276
4FT_2	1	0.0	20.16	0.1570	0.1418	0.0154	20.02	18.04	1.94	0.02420	0.00008	230.6	38.20	20.16	18.04	26.17	8.50	78.52	1.948	15.548
	2	0.0	19.90	0.3222	0.2904	0.0322	41.02	36.94	4.10	0.04110	0.00013	277.0	56.84	19.90	36.94	32.21	17.41	96.64	2.659	22.536
	3	0.1	19.94	0.4872	0.4318	0.0552	62.04	55.00	7.02	0.04922	0.00016	344.4	74.94	19.94	55.00	38.27	25.93	114.82	3.387	29.831
	4	0.1	34.06	0.2668	0.2440	0.0228	33.98	31.06	2.94	0.03332	0.00011	291.2	65.12	34.06	31.06	44.41	14.64	133.24	5.597	75.572
	5	0.1	34.14	0.5342	0.4862	0.0476	68.04	61.94	6.08	0.04888	0.00016	388.3	96.08	34.14	61.94	54.79	29.20	164.36	7.726	112.009
	6	0.1	33.88	0.8092	0.7290	0.0800	103.02	92.86	10.16	0.05903	0.00019	477.8	126.74	33.88	92.86	64.83	43.77	194.50	9.736	145.492
	7	0.1	68.00	0.5338	0.4870	0.0468	68.00	62.04	5.98	0.04231	0.00014	451.4	130.04	68.00	62.04	88.68	29.25	266.04	22.309	601.297
	8	0.1	68.04	1.0764	0.9742	0.1022	137.06	124.06	13.00	0.06426	0.00021	589.7	192.10	68.04	124.06	109.39	58.48	328.18	30.770	889.318
	9	0.1	67.94	1.6180	1.4604	0.1574	206.00	185.98	20.04	0.08807	0.00029	647.2	253.92	67.94	185.98	129.93	87.67	389.80	39.118	1172.054
	10	0.1	103.02	0.5342	0.4852	0.0488	67.96	61.78	6.24	0.04058	0.00013	469.5	164.80	103.02	61.78	123.61	29.12	370.84	44.569	1749.067
	11	0.1	102.96	0.8088	0.7316	0.0772	102.96	93.16	9.82	0.05229	0.00017	543.5	196.12	102.96	93.16	134.01	43.92	402.04	50.986	2079.024
	12	0.1	103.02	1.6184	1.4616	0.1560	206.02	186.12	19.90	0.08237	0.00027	690.0	289.14	103.02	186.12	165.06	87.74	495.18	70.188	3068.678
	13	0.1	136.96	0.8090	0.7280	0.0810	103.02	92.68	10.32	0.04944	0.00016	569.0	229.64	136.96	92.68	167.85	43.69	503.56	81.661	4307.630
	14	0.1	136.98	1.0762	0.9764	0.0998	137.04	124.34	12.70	0.06085	0.00020	622.8	261.32	136.98	124.34	178.43	58.61	535.28	90.355	4903.273
	15	0.1	137.02	2.1596	1.9486	0.2110	274.94	248.10	26.88	0.09339	0.00032	787.8	385.12	137.02	248.10	219.72	116.96	659.16	124.313	7230.450

8FT_1	Load. Seq.	ε_p	σ_{conf}	$P_{v,max}$	$P_{v,cycle}$	$P_{v,cont}$	$\sigma_{v,max}$	$\sigma_{v,cycle}$	$\sigma_{v,cont}$	Δ_r	ε_r	$MR_{,obs}$	σ_1	σ_3	σ_d	σ_{oct}	τ_{oct}	ϑ	I_2	I_3
	[-]	[%]	[MPa]	[kN]	[kN]	[kN]	[kPa]	[kPa]	[kPa]	[mm]	[mm/mm]	[MPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[MPa]	[MPa]
	1	0.0	19.92	0.1568	0.1408	0.0162	19.98	17.92	2.04	0.02221	0.00011	170.0	37.84	19.92	17.92	25.89	8.45	77.68	1.906	15.066
	2	0.0	20.02	0.3218	0.2906	0.0310	40.98	37.00	3.98	0.04283	0.00020	182.0	57.02	20.02	37.00	32.35	17.44	97.06	2.684	22.869
	3	0.0	19.88	0.4870	0.4310	0.0560	61.98	54.84	7.16	0.05683	0.00027	202.9	74.72	19.88	54.84	38.16	25.85	114.48	3.367	29.573
	4	0.0	34.06	0.2674	0.2436	0.0232	34.04	31.04	2.98	0.03112	0.00015	210.9	65.10	34.06	31.04	44.41	14.63	133.22	5.595	75.535
	5	0.0	34.10	0.5338	0.4870	0.0464	67.96	62.00	5.96	0.05471	0.00026	240.0	96.10	34.10	62.00	54.77	29.23	164.30	7.717	111.754
	6	0.0	34.08	0.8092	0.7306	0.0786	103.02	93.02	10.02	0.07234	0.00034	270.0	127.10	34.08	93.02	65.09	43.85	195.26	9.826	147.690
	7	0.0	67.96	0.5342	0.4876	0.0468	68.04	62.10	5.94	0.04270	0.00020	317.0	130.06	67.96	62.10	88.66	29.27	265.98	22.296	600.694
	8	0.0	68.02	1.0760	0.9734	0.1026	137.02	123.94	13.08	0.07545	0.00036	347.2	191.96	68.02	123.94	109.33	58.43	328.00	30.741	888.144
	9	0.0	67.98	1.6176	1.4610	0.1570	205.98	186.00	19.98	0.10743	0.00051	366.0	253.98	67.98	186.00	129.98	87.68	389.94	39.152	1173.724
	10	0.0	103.02	0.5340	0.4880	0.0460	67.96	62.14	5.86	0.03924	0.00018	347.3	165.16	103.02	62.14	123.73	29.29	371.20	44.643	1752.870
	11	0.0	102.98	0.8090	0.7306	0.0788	103.02	92.98	10.04	0.05480	0.00025	365.9	195.96	102.98	92.98	133.97	43.83	401.92	50.965	2078.134
	12	0.0	103.06	1.6174	1.4610	0.1562	205.92	186.00	19.94	0.09680	0.00045	410.8	289.06	103.06	186.00	165.06	87.68	495.18	70.203	3070.286
	13	0.0	137.00	0.8090	0.7300	0.0790	103.00	92.96	10.04	0.05091	0.00023	398.1	229.96	137.00	92.96	167.99	43.82	503.96	81.778	4316.140
	14	0.0	137.02	1.0764	0.9742	0.1020	137.06	124.06	13.02	0.06469	0.00030	417.2	261.08	137.02	124.06	178.37	58.48	535.12	90.321	4901.661
	15	0.0	137.00	2.1600	1.9480	0.2122	275.00	248.02	27.00	0.11720	0.00055	453.8	385.02	137.00	248.02	219.67	116.92	659.02	124.265	7226.456
8FT_1	1	0.0	20.06	0.1574	0.1422	0.0152	20.02	18.10	1.92	0.02978	0.00015	123.7	38.16	20.06	18.10	26.09	8.53	78.28	1.934	15.368
	2	0.0	19.82	0.3228	0.2908	0.0320	41.08	37.02	4.06	0.04784	0.00024	158.2	56.84	19.82	37.02	32.16	17.45	96.48	2.647	22.352
	3	0.1	19.98	0.4870	0.4314	0.0554	62.02	54.92	7.08	0.05877	0.00029	190.1	74.90	19.98	54.92	38.29	25.89	114.86	3.392	29.903
	4	0.1	34.02	0.2672	0.2428	0.0246	33.98	30.92	3.16	0.03617	0.00018	171.7	64.94	34.02	30.92	44.33	14.58	132.98	5.576	75.172
	5	0.1	34.06	0.5342	0.4878	0.0462	68.00	62.12	5.88	0.05808	0.00029	218.2	96.18	34.06	62.12	54.77	29.28	164.30	7.712	111.606
	6	0.1	34.08	0.8088	0.7304	0.0782	102.98	93.00	10.00	0.07282	0.00036	261.3	127.10	34.08	93.02	65.09	43.85	195.26	9.825	147.654
	7	0.1	68.04	0.5340	0.4864	0.0476	68.00	61.92	6.04	0.04810	0.00024	260.7	129.96	68.04	61.92	88.68	29.19	266.04	22.315	601.657
8FT_1	8	0.1	68.00	1.0760	0.9744	0.1012	137.02	124.10	12.94	0.07800	0.00038	325.9	192.10	68.00	124.10	109.37	58.50	328.10	30.750	888.296
	9	0.1	68.06	1.6178	1.4608	0.1574	206.00	186.02	20.00	0.10592	0.00050	370.2	254.08	68.06	186.02	130.07	87.69	390.20	39.218	1176.952
	10	0.1	103.02	0.5342	0.4860	0.0480	67.98	61.90	6.10	0.04633	0.00023	274.9	164.92	103.02	61.90	123.65	29.18	370.96	44.593	1750.327
	11	0.1	102.96	0.8088	0.7308	0.0782	103.02	93.08	9.98	0.06093	0.00029	317.1	196.04	102.96	93.08	133.99	43.88	401.96	50.969	2078.189
	12	0.1	102.96	1.6178	1.4602	0.1578	206.00	185.94	20.06	0.09676	0.00046	405.6	288.90	102.96	185.94	164.94	87.65	494.82	70.091	3062.592
	13	0.1	136.98	0.8090	0.7290	0.0800	103.02	92.80	10.18	0.05674	0.00027	341.0	229.78	136.98	92.80	167.91	43.75	503.74	81.714	4311.500
	14	0.1	137.02	1.0756	0.9734	0.1024	136.98	123.94	13.04	0.06932	0.00033	374.1	260.96	137.02	123.94	178.33	58.43	535.00	90.288	4899.425
	15	0.1	136.98	2.1602	1.9466	0.2136	275.04	247.86	27.18	0.11456	0.00054	460.2	384.84	136.98	247.86	219.60	116.84	658.80	124.194	7220.952

	Load. Seq.	ε_p	σ_{conf}	$P_{v,max}$	$P_{v,cycle}$	$P_{v,cont}$	$\sigma_{v,max}$	$\sigma_{v,cycle}$	$\sigma_{v,cont}$	Δ_r	ε_r	$MR_{,obs}$	σ_1	σ_3	σ_d	σ_{oct}	τ_{oct}	ϑ	I_2	I_3
	[-]	[%]	[MPa]	[kN]	[kN]	[kN]	[kPa]	[kPa]	[kPa]	[mm]	[mm/mm]	[MPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[MPa]	[MPa]
12FT_1	1	0.1	20.08	0.1570	0.1420	0.0150	19.98	18.06	1.90	0.03278	0.00016	110.8	38.14	20.08	18.06	26.10	8.51	78.30	1.935	15.386
	2	0.1	19.98	0.3220	0.2906	0.0314	41.00	37.02	3.94	0.04744	0.00024	156.2	57.00	19.98	37.02	32.32	17.45	96.96	2.677	22.771
	3	0.1	20.00	0.4872	0.4320	0.0552	62.02	54.98	7.02	0.05797	0.00029	189.8	74.98	20.00	54.98	38.33	25.92	114.98	3.400	30.012
	4	0.1	34.00	0.2670	0.2436	0.0232	34.00	31.04	2.96	0.03597	0.00018	172.7	65.04	34.00	31.04	44.35	14.63	133.04	5.579	75.207
	5	0.1	34.04	0.5336	0.4866	0.0470	67.94	61.92	6.00	0.05580	0.00028	222.1	95.96	34.04	61.92	54.68	29.19	164.04	7.692	111.210
	6	0.1	34.02	0.8090	0.7302	0.0786	102.98	92.98	10.04	0.07413	0.00037	250.8	127.00	34.02	92.98	65.01	43.83	195.04	9.799	147.002
	7	0.1	67.96	0.5340	0.4868	0.0470	68.02	62.02	6.00	0.04453	0.00022	278.8	129.98	67.96	62.02	88.63	29.24	265.90	22.286	600.335
	8	0.2	68.00	1.0762	0.9742	0.1018	137.02	124.04	12.98	0.07928	0.00040	312.9	192.04	68.00	124.04	109.35	58.47	328.04	30.742	888.003
	9	0.2	67.98	1.6178	1.4612	0.1570	206.00	185.98	20.02	0.11232	0.00056	331.2	253.96	67.98	185.98	129.97	87.67	389.92	39.150	1173.621
	10	0.2	103.00	0.5336	0.4866	0.0468	67.96	61.98	6.00	0.04120	0.00021	300.9	164.98	103.00	61.98	123.66	29.22	370.98	44.595	1750.309
	11	0.2	102.94	0.8092	0.7310	0.0782	103.02	93.08	9.96	0.05653	0.00028	329.4	196.02	102.94	93.08	133.97	43.88	401.90	50.953	2077.171
	12	0.2	103.04	1.6178	1.4608	0.1568	205.98	186.00	19.98	0.09988	0.00050	372.6	289.04	103.04	186.00	165.04	87.68	495.12	70.183	3068.812
	13	0.2	136.94	0.8090	0.7310	0.0780	102.98	93.08	9.92	0.05208	0.00026	357.9	230.02	136.94	93.08	167.97	43.88	503.90	81.750	4313.466
	14	0.2	136.98	1.0760	0.9742	0.1018	137.00	124.02	12.98	0.06499	0.00032	381.9	261.00	136.98	124.02	178.32	58.46	534.96	90.267	4897.280
	15	0.3	136.98	2.1600	1.9482	0.2120	275.02	248.02	26.98	0.11896	0.00059	417.0	385.00	136.98	248.02	219.65	116.92	658.96	124.238	7224.014
12FT_2	1	0.1	20.12	0.1572	0.1410	0.0158	20.02	17.96	2.06	0.02880	0.00014	124.6	38.08	20.12	17.96	26.11	8.47	78.32	1.938	15.432
	2	0.1	20.10	0.3218	0.2914	0.0302	40.96	37.12	3.88	0.04647	0.00023	159.7	57.22	20.10	37.12	32.47	17.50	97.42	2.705	23.139
	3	0.1	20.06	0.4870	0.4318	0.0552	62.02	54.98	7.06	0.06000	0.00030	183.2	75.04	20.06	54.98	38.39	25.92	115.16	3.413	30.209
	4	0.1	34.06	0.2670	0.2436	0.0234	34.00	31.02	2.98	0.03477	0.00017	178.6	65.08	34.06	31.02	44.40	14.62	133.20	5.594	75.508
	5	0.1	33.96	0.5342	0.4876	0.0464	68.02	62.08	5.92	0.05885	0.00029	210.8	96.04	33.96	62.08	54.65	29.26	163.96	7.677	110.783
	6	0.1	33.96	0.8086	0.7314	0.0776	102.94	93.10	9.88	0.07679	0.00038	242.3	127.06	33.96	93.10	64.99	43.89	194.98	9.784	146.557
	7	0.1	68.00	0.5342	0.4868	0.0476	68.04	61.96	6.04	0.04753	0.00024	260.7	129.96	68.00	61.96	88.65	29.21	265.96	22.299	600.941
	8	0.1	68.02	1.0762	0.9742	0.1022	137.04	124.04	13.00	0.08147	0.00041	304.3	192.06	68.02	124.04	109.37	58.47	328.10	30.755	888.614
	9	0.2	67.98	1.6180	1.4610	0.1572	206.00	185.98	20.02	0.11155	0.00056	333.3	253.96	67.98	185.98	129.97	87.67	389.92	39.150	1173.622
	10	0.2	103.02	0.5344	0.4870	0.0470	67.98	62.00	5.98	0.04225	0.00021	293.4	165.02	103.02	62.00	123.69	29.23	371.06	44.614	1751.381
	11	0.2	102.92	0.8092	0.7300	0.0792	103.00	92.94	10.08	0.05947	0.00030	312.5	195.86	102.92	92.94	133.90	43.81	401.70	50.908	2074.664
	12	0.2	102.98	1.6184	1.4614	0.1566	206.06	186.08	19.96	0.10174	0.00051	365.7	289.06	102.98	186.08	165.01	87.72	495.02	70.140	3065.472
	13	0.2	137.02	0.8092	0.7292	0.0796	103.02	92.88	10.12	0.05643	0.00028	329.2	229.90	137.02	92.88	167.98	43.78	503.94	81.776	4316.275
	14	0.2	136.96	1.0762	0.9724	0.1036	137.04	123.82	13.18	0.07090	0.00035	349.2	260.78	136.96	123.82	178.23	58.37	534.70	90.191	4891.733
	15	0.2	137.02	2.1596	1.9482	0.2116	274.98	248.04	26.94	0.12162	0.00061	407.7	385.06	137.02	248.04	219.70	116.93	659.10	124.296	7229.305

Allegato 23: Tabelle di modulo resiliente per CDWA stagionati 60 giorni

	Load. Seq.	ε_p	σ_{conf}	$P_{v,max}$	$P_{v,cycle}$	$P_{v,cont}$	$\sigma_{v,max}$	$\sigma_{v,cycle}$	$\sigma_{v,cont}$	Δ_r	ε_r	$MR_{,obs}$	σ_1	σ_3	σ_d	σ_{oct}	τ_{oct}	ϑ	I_2	I_3
	[-]	[%]	[MPa]	[kN]	[kN]	[kN]	[kPa]	[kPa]	[kPa]	[mm]	[mm/mm]	[MPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[MPa]	[MPa]
TQ_1	1	0.1	20.06	0.1570	0.1404	0.0166	19.98	17.86	2.12	0.02156	0.00007	253.3	37.92	20.06	17.86	26.01	8.42	78.04	1.924	15.267
	2	0.1	20.06	0.3218	0.2916	0.0306	40.98	37.10	3.88	0.03323	0.00011	339.5	57.16	20.06	37.10	32.43	17.49	97.28	2.696	23.011
	3	0.1	19.90	0.4870	0.4322	0.0546	61.98	55.04	6.96	0.03699	0.00013	436.9	74.94	19.90	55.04	38.25	25.95	114.74	3.379	29.683
	4	0.1	33.96	0.2670	0.2432	0.0234	33.98	30.98	3.00	0.02882	0.00009	333.5	64.94	33.96	30.98	44.29	14.60	132.86	5.564	74.902
	5	0.1	33.96	0.5340	0.4874	0.0468	68.02	62.06	5.94	0.03812	0.00013	478.3	96.02	33.96	62.06	54.65	29.26	163.94	7.675	110.739
	6	0.1	34.00	0.8092	0.7308	0.0784	103.06	93.06	9.98	0.04542	0.00015	606.8	127.06	34.00	93.06	65.02	43.87	195.06	9.796	146.881
	7	0.1	68.00	0.5340	0.4876	0.0466	67.98	62.08	5.92	0.03609	0.00012	526.1	130.08	68.00	62.08	88.69	29.26	266.08	22.315	601.491
	8	0.1	67.96	1.0758	0.9736	0.1024	137.02	123.94	13.04	0.05233	0.00017	732.7	191.90	67.96	123.94	109.27	58.43	327.82	30.702	886.301
	9	0.1	67.98	1.6176	1.4604	0.1572	205.96	185.96	20.02	0.06737	0.00022	850.7	253.94	67.98	185.96	129.97	87.66	389.90	39.147	1173.543
	10	0.1	102.96	0.5344	0.4846	0.0498	68.04	61.68	6.32	0.03449	0.00011	553.3	164.64	102.96	61.68	123.52	29.08	370.56	44.504	1745.318
	11	0.1	102.96	0.8092	0.7304	0.0786	103.04	93.02	10.02	0.04309	0.00014	662.8	195.98	102.96	93.02	133.97	43.85	401.90	50.957	2077.570
	12	0.1	102.98	1.6180	1.4618	0.1562	206.00	186.10	19.86	0.06392	0.00021	896.7	289.08	102.98	186.10	165.01	87.73	495.04	70.144	3065.703
	13	0.1	136.96	0.8092	0.7280	0.0814	103.04	92.70	10.30	0.04019	0.00013	706.0	229.66	136.96	92.70	167.86	43.70	503.58	81.666	4307.956
	14	0.1	137.04	1.0760	0.9756	0.1008	137.02	124.18	12.84	0.04823	0.00016	786.1	261.22	137.04	124.18	178.43	58.54	535.30	90.375	4905.679
	15	0.1	137.00	2.1604	1.9502	0.2102	275.04	248.30	26.76	0.07524	0.00024	1026.1	385.30	137.00	248.30	219.77	117.05	659.30	124.341	7231.702
TQ_2	1	0.0	19.98	0.1570	0.1410	0.0160	20.00	17.94	2.02	0.01603	0.00005	335.6	37.92	19.98	17.94	25.96	8.46	77.88	1.915	15.142
	2	0.1	20.02	0.3220	0.2916	0.0304	41.02	37.14	3.88	0.02766	0.00009	411.5	57.16	20.02	37.14	32.40	17.51	97.20	2.690	22.914
	3	0.1	20.00	0.4870	0.4318	0.0550	61.98	55.00	7.00	0.03414	0.00011	492.0	75.00	20.00	55.00	38.33	25.93	115.00	3.401	30.021
	4	0.1	33.98	0.2668	0.2442	0.0230	33.96	31.06	2.92	0.02200	0.00007	436.7	65.04	33.98	31.06	44.33	14.64	133.00	5.575	75.098
	5	0.1	34.00	0.5346	0.4868	0.0476	68.08	62.02	6.06	0.03453	0.00011	559.5	96.02	34.00	62.02	54.67	29.24	164.02	7.685	111.001
	6	0.1	33.98	0.8092	0.7316	0.0772	103.00	93.18	9.84	0.04395	0.00014	653.7	127.16	33.98	93.18	65.04	43.93	195.12	9.796	146.825
	7	0.1	67.98	0.5342	0.4868	0.0472	68.02	62.02	6.02	0.03077	0.00010	620.2	130.00	67.98	62.02	88.65	29.24	265.96	22.296	600.770
	8	0.1	67.98	1.0760	0.9734	0.1030	137.02	123.94	13.10	0.04939	0.00016	787.5	191.92	67.98	123.94	109.29	58.43	327.88	30.715	886.914
	9	0.1	68.00	1.6176	1.4606	0.1568	205.94	185.98	19.98	0.06677	0.00021	875.7	253.98	68.00	185.98	129.99	87.67	389.98	39.165	1174.403
	10	0.1	102.94	0.5342	0.4852	0.0492	68.02	61.72	6.28	0.03047	0.00010	626.2	164.66	102.94	61.72	123.51	29.10	370.54	44.497	1744.853
	11	0.1	102.94	0.8096	0.7322	0.0774	103.08	93.26	9.84	0.04019	0.00013	718.0	196.20	102.94	93.26	134.03	43.96	402.08	50.991	2079.132
	12	0.1	103.12	1.6172	1.4610	0.1562	205.92	186.00	19.92	0.06271	0.00020	930.6	289.12	103.12	186.00	165.12	87.68	495.36	70.262	3074.441
	13	0.1	137.00	0.8090	0.7320	0.0772	102.98	93.18	9.80	0.03742	0.00012	769.0	230.18	137.00	93.18	168.06	43.93	504.18	81.838	4320.267
	14	0.1	137.00	1.0760	0.9750	0.1010	137.02	124.14	12.88	0.04507	0.00015	856.2	261.14	137.00	124.14	178.38	58.52	535.14	90.321	4901.344
	15	0.1	137.00	2.1596	1.9500	0.2100	274.98	248.26	26.72	0.07217	0.00023	1059.7	385.26	137.00	248.26	219.75	117.03	659.26	124.330	7230.973

	Load. Seq.	ε_p	σ_{conf}	$P_{v,max}$	$P_{v,cycle}$	$P_{v,cont}$	$\sigma_{v,max}$	$\sigma_{v,cycle}$	$\sigma_{v,cont}$	Δ_r	ε_r	$MR_{,obs}$	σ_1	σ_3	σ_d	σ_{oct}	τ_{oct}	ϑ	I_2	I_3
	[-]	[%]	[MPa]	[kN]	[kN]	[kN]	[kPa]	[kPa]	[kPa]	[mm]	[mm/mm]	[MPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[MPa]	[MPa]
	1	-0.1	19.92	0.1574	0.1418	0.0158	20.04	18.02	2.00	0.01446	0.00007	250.1	37.94	19.92	18.02	25.93	8.49	77.78	1.909	15.061
	2	-0.1	19.76	0.3224	0.2896	0.0328	41.06	36.86	4.16	0.02633	0.00013	280.7	56.62	19.76	36.86	32.05	17.38	96.14	2.629	22.135
	3	-0.1	20.14	0.4864	0.4340	0.0524	61.94	55.28	6.66	0.03467	0.00017	319.6	75.42	20.14	55.28	38.57	26.06	115.70	3.444	30.628
	4	-0.1	33.96	0.2674	0.2428	0.0242	34.02	30.92	3.10	0.01857	0.00009	334.1	64.88	33.96	30.92	44.27	14.58	132.80	5.561	74.867
	5	-0.1	33.90	0.5342	0.4866	0.0478	68.02	61.92	6.08	0.03115	0.00016	398.2	95.82	33.90	61.92	54.54	29.19	163.62	7.646	110.129
	6	-0.2	34.10	0.8086	0.7306	0.0778	102.94	93.04	9.90	0.04181	0.00021	445.9	127.14	34.10	93.04	65.11	43.86	195.34	9.835	147.915
4FT_1	7	-0.2	68.02	0.5346	0.4874	0.0470	68.02	62.02	6.02	0.02446	0.00012	508.4	130.04	68.02	62.02	88.69	29.24	266.08	22.318	601.680
	8	-0.1	68.00	1.0758	0.9748	0.1008	136.96	124.14	12.82	0.04385	0.00022	566.9	192.14	68.00	124.14	109.38	58.52	328.14	30.755	888.474
	9	-0.1	68.04	1.6182	1.4608	0.1576	206.02	185.98	20.06	0.06294	0.00031	591.9	254.02	68.04	185.98	130.03	87.67	390.10	39.197	1176.014
	10	-0.1	102.96	0.5342	0.4880	0.0460	67.98	62.10	5.88	0.02289	0.00011	542.9	165.06	102.96	62.10	123.66	29.27	370.98	44.590	1749.807
	11	-0.2	102.94	0.8090	0.7298	0.0792	103.02	92.92	10.08	0.03167	0.00016	587.8	195.86	102.94	92.92	133.91	43.80	401.74	50.920	2075.455
	12	-0.1	102.94	1.6184	1.4598	0.1588	206.08	185.84	20.22	0.05729	0.00029	649.9	288.78	102.94	185.84	164.89	87.61	494.66	70.051	3060.099
	13	-0.1	137.00	0.8088	0.7300	0.0790	103.00	92.94	10.06	0.02995	0.00015	621.4	229.94	137.00	92.94	167.98	43.81	503.94	81.773	4315.757
	14	-0.1	137.02	1.0758	0.9742	0.1018	137.00	124.04	12.94	0.03825	0.00019	649.7	261.06	137.02	124.04	178.37	58.47	535.10	90.315	4901.265
	15	-0.1	137.00	2.1598	1.9474	0.2122	274.98	247.92	27.04	0.07067	0.00035	703.2	384.92	137.00	247.92	219.64	116.87	658.92	124.237	7224.580
	1	0.0	19.88	0.1568	0.1408	0.0160	19.98	17.94	2.04	0.01543	0.00008	233.4	37.82	19.88	17.94	25.86	8.46	77.58	1.900	14.977
	2	0.0	19.78	0.3218	0.2906	0.0316	40.98	36.98	4.02	0.02632	0.00013	281.3	56.76	19.78	36.98	32.11	17.43	96.32	2.637	22.223
	3	0.1	20.00	0.4868	0.4322	0.0546	61.98	55.02	6.96	0.03440	0.00017	320.3	75.02	20.00	55.02	38.34	25.94	115.02	3.402	30.040
	4	0.1	34.06	0.2690	0.2454	0.0236	34.22	31.24	2.98	0.01960	0.00010	319.1	65.30	34.06	31.24	44.47	14.73	133.42	5.610	75.809
	5	0.1	34.02	0.5340	0.4870	0.0470	68.00	61.98	5.96	0.03246	0.00016	381.9	96.00	34.02	61.98	54.68	29.22	164.04	7.690	111.150
	6	0.1	34.02	0.8088	0.7304	0.0784	102.98	92.98	9.98	0.04282	0.00021	434.2	127.00	34.02	92.98	65.01	43.83	195.04	9.799	147.000
	7	0.1	67.96	0.5342	0.4876	0.0470	68.04	62.04	5.96	0.02551	0.00013	486.6	130.00	67.96	62.04	88.64	29.25	265.92	22.288	600.424
4FT_2	8	0.1	68.00	1.0756	0.9738	0.1014	136.98	124.02	12.92	0.04473	0.00022	555.2	192.02	68.00	124.02	109.34	58.46	328.02	30.739	887.949
	9	0.1	67.94	1.6178	1.4602	0.1578	206.00	185.90	20.12	0.06306	0.00032	590.2	253.84	67.94	185.90	129.91	87.63	389.72	39.108	1171.707
	10	0.1	103.08	0.5340	0.4866	0.0472	67.96	61.96	6.02	0.02299	0.00012	538.0	165.04	103.08	61.96	123.73	29.21	371.20	44.650	1753.660
	11	0.1	103.02	0.8090	0.7290	0.0800	102.96	92.84	10.18	0.03227	0.00016	575.2	195.86	103.02	92.84	133.97	43.77	401.90	50.968	2078.695
	12	0.1	102.96	1.6180	1.4610	0.1568	206.02	186.04	19.96	0.05798	0.00029	641.7	289.00	102.96	186.04	164.97	87.70	494.92	70.112	3063.627
	13	0.1	137.00	0.8084	0.7302	0.0786	102.96	92.94	10.00	0.03062	0.00015	607.5	229.94	137.00	92.94	167.98	43.81	503.94	81.773	4315.758
	14	0.1	137.00	1.0758	0.9742	0.1016	136.96	124.02	12.92	0.03887	0.00019	638.0	261.02	137.00	124.02	178.34	58.46	535.02	90.288	4899.087
	15	0.1	136.98	2.1596	1.9474	0.2124	274.96	247.94	27.04	0.07161	0.00036	692.2	384.92	136.98	247.94	219.63	116.88	658.88	124.216	7222.498

	Load. Seq.	ε_p	σ_{conf}	$P_{v,max}$	$P_{v,cycle}$	$P_{v,cont}$	$\sigma_{v,max}$	$\sigma_{v,cycle}$	$\sigma_{v,cont}$	Δ_r	ε_r	$MR_{,obs}$	σ_1	σ_3	σ_d	σ_{oct}	τ_{oct}	ϑ	I_2	I_3
	[-]	[%]	[MPa]	[kN]	[kN]	[kN]	[kPa]	[kPa]	[kPa]	[mm]	[mm/mm]	[MPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[MPa]	[MPa]
8FT_1	1	0.0	20.00	0.1574	0.1416	0.0162	20.06	18.02	2.04	0.02771	0.00014	129.8	38.02	20.00	18.02	26.01	8.49	78.02	1.921	15.210
	2	0.0	19.96	0.3220	0.2904	0.0314	40.98	37.00	4.00	0.04027	0.00020	183.6	56.96	19.96	37.00	32.29	17.44	96.88	2.673	22.702
	3	0.0	19.98	0.4870	0.4314	0.0556	62.00	54.92	7.06	0.04548	0.00023	241.5	74.90	19.98	54.92	38.29	25.89	114.86	3.392	29.906
	4	0.0	34.10	0.2666	0.2432	0.0236	33.94	30.94	3.02	0.03282	0.00016	188.6	65.04	34.10	30.94	44.41	14.59	133.24	5.599	75.650
	5	-0.1	33.96	0.5346	0.4874	0.0472	68.04	62.02	6.04	0.04594	0.00023	269.7	95.98	33.96	62.02	54.63	29.24	163.90	7.673	110.712
	6	-0.1	33.92	0.8090	0.7300	0.0792	103.00	92.96	10.10	0.05546	0.00028	334.8	126.88	33.92	92.96	64.91	43.82	194.72	9.758	145.990
	7	-0.1	68.00	0.5342	0.4876	0.0466	68.02	62.06	5.92	0.03725	0.00019	333.2	130.06	68.00	62.06	88.69	29.26	266.06	22.312	601.398
	8	-0.1	67.98	1.0758	0.9738	0.1022	137.00	124.00	12.98	0.05646	0.00028	439.5	191.98	67.98	124.00	109.31	58.45	327.94	30.723	887.196
	9	-0.1	68.00	1.6176	1.4608	0.1568	205.96	186.00	19.98	0.07921	0.00040	469.2	254.00	68.00	186.00	130.00	87.68	390.00	39.168	1174.525
	10	-0.1	102.98	0.5344	0.4870	0.0474	68.00	61.96	6.04	0.03369	0.00017	367.7	164.94	102.98	61.96	123.63	29.21	370.90	44.576	1749.175
	11	-0.1	103.00	0.8092	0.7306	0.0786	103.06	93.04	10.02	0.04235	0.00021	439.3	196.04	103.00	93.04	134.01	43.86	402.04	50.993	2079.791
	12	0.0	102.92	1.6180	1.4606	0.1572	205.98	186.00	20.02	0.07237	0.00036	513.5	288.92	102.92	186.00	164.92	87.68	494.76	70.064	3060.402
	13	-0.1	136.96	0.8090	0.7302	0.0792	103.04	92.96	10.10	0.03937	0.00020	472.3	229.92	136.96	92.96	167.95	43.82	503.84	81.738	4312.847
	14	-0.1	136.96	1.0772	0.9764	0.1008	137.16	124.32	12.84	0.04857	0.00024	511.2	261.28	136.96	124.32	178.40	58.61	535.20	90.328	4901.106
	15	0.0	136.98	2.1598	1.9476	0.2122	275.00	247.98	27.02	0.08773	0.00044	565.2	384.96	136.98	247.98	219.64	116.90	658.92	124.227	7223.206
8FT_2	1	0.0	20.00	0.1570	0.1416	0.0154	20.00	18.04	1.96	0.02262	0.00011	159.3	38.04	20.00	18.04	26.01	8.50	78.04	1.922	15.217
	2	0.0	19.88	0.3220	0.2900	0.0320	41.00	36.92	4.10	0.03459	0.00017	213.5	56.80	19.88	36.92	32.19	17.40	96.56	2.655	22.489
	3	0.0	19.88	0.4872	0.4318	0.0554	62.04	55.00	7.06	0.04474	0.00022	246.2	74.88	19.88	55.00	38.21	25.93	114.64	3.373	29.618
	4	0.0	33.86	0.2668	0.2432	0.0242	33.98	30.96	3.04	0.02712	0.00014	228.4	64.82	33.86	30.96	44.18	14.59	132.54	5.537	74.360
	5	0.0	33.98	0.5346	0.4872	0.0472	68.04	62.02	6.00	0.04462	0.00022	278.0	96.00	33.98	62.02	54.65	29.24	163.96	7.679	110.858
	6	0.0	34.08	0.8088	0.7304	0.0784	102.96	93.00	9.98	0.05892	0.00029	315.9	127.08	34.08	93.00	65.08	43.84	195.24	9.823	147.607
	7	0.0	68.08	0.5342	0.4868	0.0476	68.00	61.98	6.04	0.03676	0.00018	337.4	130.06	68.08	61.98	88.74	29.22	266.22	22.344	602.824
	8	0.1	67.98	1.0760	0.9736	0.1022	137.00	123.96	13.02	0.06296	0.00032	393.5	191.94	67.98	123.96	109.30	58.44	327.90	30.718	887.029
	9	0.1	68.00	1.6180	1.4608	0.1572	206.00	186.02	19.98	0.08899	0.00044	418.2	254.02	68.00	186.02	130.01	87.69	390.02	39.171	1174.594
	10	0.1	103.02	0.5340	0.4866	0.0474	67.98	61.98	6.04	0.03341	0.00017	371.2	165.00	103.02	61.98	123.68	29.22	371.04	44.610	1751.172
	11	0.1	103.08	0.8088	0.7302	0.0784	102.98	93.00	10.00	0.04601	0.00023	404.7	196.08	103.08	93.00	134.08	43.84	402.24	51.050	2083.471
	12	0.1	103.04	1.6178	1.4608	0.1574	206.00	185.96	20.00	0.08046	0.00040	462.4	289.00	103.04	185.96	165.03	87.66	495.08	70.174	3068.397
	13	0.1	137.04	0.8088	0.7302	0.0784	103.00	93.00	10.00	0.04300	0.00022	432.3	230.04	137.04	93.00	168.04	43.84	504.12	81.829	4320.148
	14	0.1	137.00	1.0758	0.9736	0.1022	136.98	123.98	12.98	0.05318	0.00027	466.5	260.98	137.00	123.98	178.33	58.44	534.98	90.278	4898.339
	15	0.1	137.02	2.1594	1.9468	0.2126	274.94	247.88	27.08	0.09679	0.00048	512.2	384.90	137.02	247.88	219.65	116.85	658.94	124.253	7226.302

	Load. Seq.	ε_p	σ_{conf}	$P_{v,max}$	$P_{v,cycle}$	$P_{v,cont}$	$\sigma_{v,max}$	$\sigma_{v,cycle}$	$\sigma_{v,cont}$	Δ_r	ε_r	$MR_{,obs}$	σ_1	σ_3	σ_d	σ_{oct}	τ_{oct}	ϑ	I_2	I_3
	[-]	[%]	[MPa]	[kN]	[kN]	[kN]	[kPa]	[kPa]	[kPa]	[mm]	[mm/mm]	[MPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[MPa]	[MPa]
12FT_1	1	0.1	20.02	0.1570	0.1402	0.0166	19.96	17.84	2.14	0.01988	0.00010	179.6	37.86	20.02	17.84	25.97	8.41	77.90	1.917	15.180
	2	0.1	19.90	0.3230	0.2918	0.0308	41.12	37.14	3.96	0.03870	0.00019	193.1	57.04	19.90	37.14	32.28	17.51	96.84	2.666	22.596
	3	0.1	20.04	0.4868	0.4338	0.0530	61.98	55.22	6.76	0.05006	0.00025	221.0	75.26	20.04	55.22	38.45	26.03	115.34	3.419	30.250
	4	0.1	33.94	0.2670	0.2432	0.0242	34.00	30.94	3.08	0.02824	0.00014	219.6	64.88	33.94	30.94	44.25	14.59	132.76	5.556	74.750
	5	0.1	33.86	0.5346	0.4876	0.0472	68.04	62.08	6.00	0.04996	0.00025	248.5	95.94	33.86	62.08	54.55	29.26	163.66	7.644	110.002
	6	0.1	34.10	0.8092	0.7306	0.0788	103.02	93.00	10.00	0.06498	0.00033	286.1	127.10	34.10	93.00	65.10	43.84	195.30	9.831	147.808
	7	0.1	67.94	0.5340	0.4868	0.0474	68.00	61.94	6.04	0.04258	0.00021	291.0	129.88	67.94	61.94	88.59	29.20	265.76	22.264	599.503
	8	0.1	67.94	1.0760	0.9754	0.1004	137.00	124.22	12.78	0.07235	0.00036	343.1	192.16	67.94	124.22	109.35	58.56	328.04	30.727	887.011
	9	0.1	68.00	1.6176	1.4610	0.1566	206.00	186.04	19.96	0.09903	0.00050	375.4	254.04	68.00	186.04	130.01	87.70	390.04	39.174	1174.706
	10	0.1	102.88	0.5342	0.4878	0.0466	68.04	62.10	5.90	0.04071	0.00020	305.0	164.98	102.88	62.10	123.58	29.27	370.74	44.531	1746.191
	11	0.1	103.00	0.8090	0.7320	0.0774	103.04	93.16	9.86	0.05407	0.00027	344.4	196.16	103.00	93.16	134.05	43.92	402.16	51.018	2081.046
	12	0.1	102.96	1.6186	1.4622	0.1564	206.10	186.18	19.92	0.09061	0.00045	410.5	289.14	102.96	186.18	165.02	87.77	495.06	70.141	3065.151
	13	0.1	137.00	0.8090	0.7296	0.0796	103.00	92.88	10.12	0.05060	0.00025	367.3	229.88	137.00	92.88	167.96	43.78	503.88	81.756	4314.618
	14	0.1	137.00	1.0758	0.9744	0.1014	137.00	124.10	12.92	0.06274	0.00031	395.6	261.10	137.00	124.10	178.37	58.50	535.10	90.310	4900.586
	15	0.1	137.04	2.1600	1.9470	0.2128	275.00	247.94	27.08	0.10698	0.00054	463.3	384.98	137.04	247.94	219.69	116.88	659.06	124.295	7229.911
12FT_2	1	0.1	20.00	0.1572	0.1402	0.0168	20.02	17.86	2.16	0.02127	0.00011	168.1	37.86	20.00	17.86	25.95	8.42	77.86	1.915	15.153
	2	0.1	20.06	0.3218	0.2902	0.0314	40.98	36.98	4.02	0.03806	0.00019	194.3	57.04	20.06	36.98	32.39	17.43	97.16	2.691	22.965
	3	0.1	20.02	0.4870	0.4320	0.0552	62.04	55.00	7.02	0.04635	0.00023	237.2	75.02	20.02	55.00	38.35	25.93	115.06	3.405	30.071
	4	0.1	34.04	0.2670	0.2428	0.0242	34.00	30.94	3.08	0.02610	0.00013	237.2	64.98	34.04	30.94	44.35	14.59	133.06	5.583	75.307
	5	0.1	34.04	0.5340	0.4870	0.0470	68.00	62.00	5.98	0.04491	0.00022	275.9	96.04	34.04	62.00	54.71	29.23	164.12	7.697	111.301
	6	0.1	34.08	0.8088	0.7298	0.0790	102.98	92.94	10.04	0.06194	0.00031	300.2	127.02	34.08	92.94	65.06	43.81	195.18	9.820	147.551
	7	0.1	67.98	0.5340	0.4858	0.0482	68.00	61.88	6.14	0.03627	0.00018	341.8	129.86	67.98	61.88	88.61	29.17	265.82	22.277	600.119
	8	0.1	67.98	1.0756	0.9732	0.1026	136.96	123.92	13.08	0.06457	0.00032	383.7	191.90	67.98	123.92	109.29	58.42	327.86	30.712	886.828
	9	0.2	67.98	1.6184	1.4602	0.1582	206.06	185.92	20.14	0.09113	0.00046	407.8	253.90	67.98	185.92	129.95	87.64	389.86	39.142	1173.363
	10	0.2	103.00	0.5340	0.4868	0.0472	68.02	62.00	6.02	0.03334	0.00017	372.2	165.00	103.00	62.00	123.67	29.23	371.00	44.599	1750.488
	11	0.2	102.92	0.8094	0.7316	0.0776	103.04	93.18	9.88	0.04546	0.00023	409.7	196.10	102.92	93.18	133.98	43.93	401.94	50.958	2077.204
	12	0.2	103.02	1.6178	1.4622	0.1558	205.96	186.14	19.82	0.08092	0.00040	460.1	289.16	103.02	186.14	165.07	87.75	495.20	70.192	3068.902
	13	0.2	137.02	0.8088	0.7306	0.0786	103.02	93.02	10.00	0.04234	0.00021	439.3	230.04	137.02	93.02	168.03	43.85	504.08	81.815	4318.878
	14	0.2	137.02	1.0756	0.9740	0.1018	137.00	124.00	12.96	0.05302	0.00027	467.7	261.02	137.02	124.00	178.35	58.45	535.06	90.304	4900.529
	15	0.2	137.02	2.1600	1.9488	0.2114	275.04	248.14	26.90	0.09510	0.00048	521.7	385.16	137.02	248.14	219.73	116.97	659.20	124.324	7231.176

Allegato 24: Tabelle di modulo resiliente per NAT stagionati 7 giorni

	Load. Seq.	ε_p	σ_{conf}	$P_{v,max}$	$P_{v,cycle}$	$P_{v,cont}$	$\sigma_{v,max}$	$\sigma_{v,cycle}$	$\sigma_{v,cont}$	Δ_r	ε_r	$MR_{,obs}$	σ_1	σ_3	σ_d	σ_{oct}	τ_{oct}	ϑ	I_2	I_3
	[-]	[%]	[MPa]	[kN]	[kN]	[kN]	[kPa]	[kPa]	[kPa]	[mm]	[mm/mm]	[MPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[MPa]	[MPa]
TQ_1	1	-0.1	20.06	0.1572	0.1408	0.0168	20.02	17.88	2.14	0.01891	0.00010	196.3	37.94	20.06	17.88	26.02	8.43	78.06	1.925	15.279
	2	-0.1	19.92	0.3226	0.2912	0.0314	41.10	37.06	4.02	0.02996	0.00015	241.6	56.98	19.92	37.06	32.27	17.47	96.82	2.668	22.631
	3	-0.1	20.04	0.4870	0.4314	0.0556	61.96	54.92	7.04	0.03558	0.00018	301.5	74.96	20.04	54.92	38.35	25.89	115.04	3.406	30.117
	4	-0.1	34.12	0.2670	0.2426	0.0242	33.98	30.92	3.06	0.02481	0.00013	243.5	65.04	34.12	30.92	44.43	14.58	133.28	5.603	75.737
	5	-0.1	33.94	0.5344	0.4876	0.0468	68.02	62.10	5.94	0.03764	0.00019	322.2	96.04	33.94	62.10	54.64	29.27	163.92	7.671	110.643
	6	-0.1	33.88	0.8096	0.7308	0.0788	103.08	93.04	10.06	0.04559	0.00023	398.9	126.92	33.88	93.04	64.89	43.86	194.68	9.749	145.726
	7	-0.1	68.02	0.5338	0.4866	0.0476	68.00	61.94	6.04	0.03346	0.00017	361.5	129.96	68.02	61.94	88.67	29.20	266.00	22.307	601.292
	8	-0.1	68.02	1.0758	0.9730	0.1026	136.98	123.90	13.06	0.05050	0.00026	478.9	191.92	68.02	123.90	109.32	58.41	327.96	30.736	887.972
	9	-0.1	68.00	1.6174	1.4590	0.1586	205.94	185.76	20.20	0.06162	0.00032	588.3	253.76	68.00	185.76	129.92	87.57	389.76	39.136	1173.415
	10	-0.1	103.06	0.5338	0.4846	0.0494	68.00	61.72	6.28	0.03215	0.00016	375.5	164.78	103.06	61.72	123.63	29.10	370.90	44.586	1750.186
	11	-0.1	102.96	0.8088	0.7304	0.0780	102.94	93.02	9.94	0.04154	0.00021	437.6	195.98	102.96	93.02	133.97	43.85	401.90	50.957	2077.584
	12	-0.1	103.02	1.6182	1.4616	0.1564	206.02	186.12	19.88	0.05914	0.00030	613.5	289.14	103.02	186.12	165.06	87.74	495.18	70.188	3068.725
	13	-0.1	136.96	0.8094	0.7300	0.0788	103.04	92.96	10.06	0.03936	0.00020	462.3	229.92	136.96	92.96	167.95	43.82	503.84	81.738	4312.825
	14	-0.1	136.98	1.0762	0.9760	0.1004	137.06	124.26	12.80	0.04737	0.00024	512.3	261.24	136.98	124.26	178.40	58.58	535.20	90.333	4901.813
	15	-0.1	136.98	2.1598	1.9470	0.2128	274.96	247.90	27.10	0.06662	0.00034	726.1	384.88	136.98	247.90	219.61	116.86	658.84	124.205	7221.700
TQ_2	1	0.1	20.12	0.1570	0.1414	0.0158	20.02	18.00	2.04	0.02090	0.00011	169.6	38.12	20.12	18.00	26.12	8.49	78.36	1.939	15.439
	2	0.0	19.94	0.3220	0.2902	0.0322	41.00	36.94	4.08	0.03007	0.00015	241.6	56.88	19.94	36.94	32.25	17.41	96.76	2.666	22.618
	3	0.0	19.96	0.4866	0.4320	0.0546	61.98	55.04	6.94	0.03549	0.00018	304.1	75.00	19.96	55.04	38.31	25.95	114.92	3.394	29.925
	4	0.0	33.98	0.2670	0.2428	0.0238	34.00	30.94	3.04	0.02603	0.00013	233.3	64.92	33.98	30.94	44.29	14.59	132.84	5.567	74.980
	5	0.1	33.94	0.5342	0.4874	0.0468	68.02	62.06	5.94	0.03671	0.00019	331.9	96.00	33.94	62.06	54.63	29.26	163.88	7.669	110.603
	6	0.1	34.02	0.8084	0.7294	0.0792	102.96	92.88	10.08	0.04293	0.00022	424.7	126.90	34.02	92.88	64.98	43.78	194.94	9.792	146.919
	7	0.1	67.96	0.5340	0.4866	0.0474	68.02	61.96	6.04	0.03161	0.00016	385.2	129.92	67.96	61.96	88.61	29.21	265.84	22.277	600.058
	8	0.1	67.94	1.0762	0.9748	0.1014	137.04	124.10	12.92	0.04516	0.00023	539.2	192.04	67.94	124.10	109.31	58.50	327.92	30.710	886.445
	9	0.1	67.94	1.6180	1.4606	0.1572	206.00	186.00	20.02	0.05751	0.00029	634.4	253.94	67.94	186.00	129.94	87.68	389.82	39.122	1172.224
	10	0.1	103.00	0.5342	0.4866	0.0476	68.02	61.96	6.08	0.03184	0.00016	382.2	164.96	103.00	61.96	123.65	29.21	370.96	44.591	1750.063
	11	0.1	103.00	0.8094	0.7324	0.0768	103.06	93.28	9.78	0.03840	0.00020	477.8	196.28	103.00	93.28	134.09	43.97	402.28	51.043	2082.348
	12	0.1	103.00	1.6176	1.4600	0.1576	205.94	185.90	20.04	0.05495	0.00028	664.0	288.90	103.00	185.90	164.97	87.63	494.90	70.122	3064.940
	13	0.1	137.02	0.8086	0.7296	0.0790	102.94	92.88	10.08	0.03540	0.00018	515.2	229.90	137.02	92.88	167.98	43.78	503.94	81.776	4316.261
	14	0.1	136.96	1.0762	0.9746	0.1014	137.02	124.10	12.92	0.04141	0.00021	588.3	261.06	136.96	124.10	178.33	58.50	534.98	90.268	4896.997
	15	0.1	137.00	2.1596	1.9484	0.2116	274.94	248.04	26.92	0.06451	0.00033	754.0	385.04	137.00	248.04	219.68	116.93	659.04	124.270	7226.845

	Load. Seq.	ε_p	σ_{conf}	$P_{v,max}$	$P_{v,cycle}$	$P_{v,cont}$	$\sigma_{v,max}$	$\sigma_{v,cycle}$	$\sigma_{v,cont}$	Δ_r	ε_r	$MR_{,obs}$	σ_1	σ_3	σ_d	σ_{oct}	τ_{oct}	ϑ	I_2	I_3
	[-]	[%]	[MPa]	[kN]	[kN]	[kN]	[kPa]	[kPa]	[kPa]	[mm]	[mm/mm]	[MPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[MPa]	[MPa]
4FT_1	1	0.0	20.06	0.1570	0.1418	0.0152	19.98	18.04	1.94	0.01697	0.00009	210.6	38.10	20.06	18.04	26.07	8.50	78.22	1.932	15.362
	2	0.0	20.00	0.3224	0.2906	0.0316	41.04	37.02	4.02	0.02650	0.00013	274.8	57.02	20.00	37.02	32.34	17.45	97.02	2.682	22.828
	3	0.0	20.22	0.4868	0.4326	0.0542	61.98	55.08	6.90	0.03276	0.00017	331.5	75.30	20.22	55.08	38.58	25.96	115.74	3.454	30.798
	4	0.0	34.22	0.2670	0.2432	0.0242	34.00	30.98	3.06	0.01969	0.00010	310.0	65.20	34.22	30.98	44.55	14.60	133.64	5.634	76.370
	5	0.0	34.02	0.5340	0.4870	0.0470	67.98	62.00	5.98	0.03026	0.00015	403.7	96.02	34.02	62.00	54.69	29.23	164.06	7.691	111.151
	6	0.0	34.00	0.8090	0.7302	0.0788	102.98	93.00	10.02	0.03808	0.00019	480.6	127.00	34.00	93.00	65.00	43.84	195.00	9.792	146.821
	7	0.0	68.00	0.5340	0.4866	0.0472	67.98	61.98	6.02	0.02303	0.00012	529.8	129.98	68.00	61.98	88.66	29.22	265.98	22.302	601.064
	8	0.0	67.98	1.0762	0.9744	0.1020	137.06	124.08	13.00	0.03837	0.00020	636.4	192.06	67.98	124.08	109.34	58.49	328.02	30.734	887.578
	9	0.0	68.02	1.6176	1.4604	0.1574	205.96	185.94	20.02	0.05321	0.00027	687.3	253.96	68.02	185.94	130.00	87.65	390.00	39.175	1175.005
	10	0.0	103.02	0.5342	0.4868	0.0474	68.02	62.00	6.02	0.02193	0.00011	555.7	165.02	103.02	62.00	123.69	29.23	371.06	44.614	1751.379
	11	0.0	102.98	0.8094	0.7306	0.0788	103.08	93.02	10.04	0.02873	0.00015	636.6	196.00	102.98	93.02	133.99	43.85	401.96	50.973	2078.560
	12	0.0	103.02	1.6178	1.4602	0.1576	205.98	185.90	20.06	0.04917	0.00025	743.7	288.92	103.02	185.90	164.99	87.63	494.96	70.142	3066.358
	13	0.0	137.02	0.8088	0.7298	0.0790	102.98	92.94	10.04	0.02734	0.00014	669.1	229.96	137.02	92.94	168.00	43.81	504.00	81.793	4317.381
	14	0.0	136.96	1.0758	0.9736	0.1022	136.98	124.00	13.00	0.03341	0.00017	730.2	260.96	136.96	124.00	178.29	58.45	534.88	90.240	4895.124
	15	0.0	136.96	2.1598	1.9484	0.2112	275.00	248.06	26.92	0.06007	0.00031	812.4	385.02	136.96	248.06	219.65	116.94	658.94	124.223	7222.263
4FT_2	1	0.0	19.88	0.1570	0.1410	0.0158	20.00	17.96	1.98	0.01562	0.00008	225.8	37.84	19.88	17.96	25.87	8.47	77.60	1.900	14.974
	2	0.0	20.08	0.3222	0.2902	0.0318	41.00	36.94	4.04	0.02410	0.00012	300.1	57.02	20.08	36.94	32.39	17.41	97.18	2.694	23.007
	3	0.0	19.98	0.4870	0.4324	0.0546	62.02	55.08	6.94	0.03126	0.00016	345.1	75.06	19.98	55.08	38.34	25.96	115.02	3.399	29.991
	4	0.0	34.04	0.2668	0.2432	0.0240	33.98	30.94	3.04	0.01983	0.00010	305.2	64.98	34.04	30.94	44.35	14.59	133.06	5.583	75.308
	5	0.0	33.96	0.5338	0.4868	0.0472	67.98	62.00	6.02	0.03136	0.00016	386.0	95.96	33.96	62.00	54.63	29.23	163.88	7.671	110.691
	6	0.0	33.98	0.8088	0.7300	0.0788	102.96	92.94	10.04	0.04008	0.00021	453.5	126.92	33.98	92.94	64.96	43.81	194.88	9.780	146.562
	7	0.0	68.00	0.5342	0.4874	0.0466	68.02	62.06	5.94	0.02682	0.00014	452.0	130.06	68.00	62.06	88.69	29.26	266.06	22.312	601.398
	8	0.0	67.98	1.0764	0.9744	0.1020	137.04	124.06	12.96	0.04233	0.00022	572.9	192.04	67.98	124.06	109.33	58.48	328.00	30.731	887.467
	9	0.0	68.00	1.6180	1.4606	0.1574	206.02	185.94	20.06	0.05789	0.00030	627.8	253.94	68.00	185.94	129.98	87.65	389.94	39.160	1174.226
	10	0.0	103.06	0.5340	0.4858	0.0482	67.98	61.86	6.12	0.02609	0.00013	466.5	164.92	103.06	61.86	123.68	29.16	371.04	44.615	1751.687
	11	0.0	102.98	0.8086	0.7312	0.0776	102.96	93.08	9.86	0.03351	0.00017	543.3	196.06	102.98	93.08	134.01	43.88	402.02	50.985	2079.193
	12	0.0	103.00	1.6178	1.4632	0.1546	206.00	186.32	19.70	0.05416	0.00028	672.7	289.32	103.00	186.32	165.11	87.83	495.32	70.209	3069.396
	13	0.0	137.04	0.8090	0.7304	0.0786	103.02	93.00	10.00	0.03205	0.00016	568.3	230.04	137.04	93.00	168.04	43.84	504.12	81.830	4320.179
	14	0.0	136.94	1.0756	0.9734	0.1018	136.96	123.96	13.00	0.03888	0.00020	624.6	260.90	136.94	123.96	178.26	58.44	534.78	90.208	4892.640
	15	0.0	137.02	2.1598	1.9472	0.2128	274.98	247.90	27.08	0.06430	0.00033	754.2	384.92	137.02	247.90	219.65	116.86	658.96	124.258	7226.715

	Load. Seq.	ε_p	σ_{conf}	$P_{v,max}$	$P_{v,cycle}$	$P_{v,cont}$	$\sigma_{v,max}$	$\sigma_{v,cycle}$	$\sigma_{v,cont}$	Δ_r	ε_r	$MR_{,obs}$	σ_1	σ_3	σ_d	σ_{oct}	τ_{oct}	ϑ	I_2	I_3
	[-]	[%]	[MPa]	[kN]	[kN]	[kN]	[kPa]	[kPa]	[kPa]	[mm]	[mm/mm]	[MPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[MPa]	[MPa]
8FT_1	1	0.0	19.98	0.1572	0.1414	0.0158	20.00	17.98	2.04	0.01896	0.00010	187.5	37.96	19.98	17.98	25.97	8.48	77.92	1.917	15.177
	2	0.0	20.04	0.3220	0.2910	0.0310	41.00	37.02	3.98	0.03079	0.00016	237.1	57.06	20.04	37.02	32.38	17.45	97.14	2.689	22.922
	3	0.0	20.22	0.4868	0.4320	0.0546	61.96	55.02	6.96	0.03711	0.00019	292.4	75.24	20.22	55.02	38.56	25.94	115.68	3.452	30.780
	4	0.0	34.12	0.2668	0.2438	0.0230	33.96	31.04	2.96	0.02571	0.00013	238.2	65.16	34.12	31.04	44.47	14.63	133.40	5.611	75.880
	5	0.0	34.04	0.5338	0.4864	0.0474	67.98	61.94	6.04	0.03791	0.00019	322.0	95.98	34.04	61.94	54.69	29.20	164.06	7.693	111.222
	6	0.0	34.08	0.8092	0.7308	0.0784	103.04	93.04	10.00	0.04662	0.00024	393.0	127.12	34.08	93.04	65.09	43.86	195.28	9.826	147.663
	7	0.0	67.88	0.5342	0.4872	0.0470	68.00	62.02	6.00	0.03220	0.00016	379.7	129.90	67.88	62.02	88.55	29.24	265.66	22.243	598.549
	8	0.0	67.96	1.0760	0.9736	0.1024	137.02	123.96	13.06	0.04729	0.00024	516.6	191.92	67.96	123.96	109.28	58.44	327.84	30.704	886.400
	9	0.1	68.00	1.6174	1.4604	0.1578	205.94	185.92	20.06	0.05819	0.00030	629.5	253.92	68.00	185.92	129.97	87.64	389.92	39.157	1174.126
	10	0.0	103.02	0.5340	0.4868	0.0474	67.98	61.96	6.04	0.02949	0.00015	414.3	164.98	103.02	61.96	123.67	29.21	371.02	44.606	1750.954
	11	0.1	102.96	0.8090	0.7300	0.0788	103.00	92.98	10.06	0.03808	0.00019	480.8	195.94	102.96	92.98	133.95	43.83	401.86	50.949	2077.115
	12	0.1	102.98	1.6176	1.4606	0.1570	206.00	185.98	20.00	0.05488	0.00028	667.6	288.96	102.98	185.98	164.97	87.67	494.92	70.119	3064.392
	13	0.1	136.98	0.8092	0.7300	0.0790	103.00	92.96	10.08	0.03533	0.00018	518.8	229.94	136.98	92.96	167.97	43.82	503.90	81.758	4314.483
	14	0.1	137.00	1.0758	0.9734	0.1024	137.00	123.94	13.08	0.04221	0.00021	578.1	260.94	137.00	123.94	178.31	58.43	534.94	90.267	4897.590
	15	0.1	137.04	2.1596	1.9470	0.2124	274.96	247.90	27.06	0.06231	0.00032	783.5	384.94	137.04	247.90	219.67	116.86	659.02	124.284	7229.163
8FT_2	1	0.0	19.84	0.1568	0.1422	0.0150	19.98	18.06	1.90	0.02354	0.00012	151.1	37.90	19.84	18.06	25.86	8.51	77.58	1.898	14.938
	2	0.0	19.96	0.3218	0.2902	0.0316	41.00	36.98	3.98	0.03535	0.00018	205.8	56.94	19.96	36.98	32.29	17.43	96.86	2.672	22.691
	3	0.0	20.08	0.4878	0.4330	0.0546	62.08	55.12	6.96	0.04121	0.00021	263.2	75.20	20.08	55.12	38.45	25.98	115.36	3.423	30.330
	4	0.0	34.00	0.2670	0.2432	0.0238	34.00	30.96	3.04	0.02901	0.00015	210.0	64.96	34.00	30.96	44.32	14.59	132.96	5.573	75.095
	5	0.0	34.04	0.5340	0.4880	0.0458	67.98	62.16	5.84	0.04267	0.00022	287.0	96.20	34.04	62.16	54.76	29.30	164.28	7.708	111.477
	6	0.1	34.00	0.8090	0.7310	0.0776	102.98	93.10	9.92	0.04866	0.00025	375.9	127.10	34.00	93.10	65.03	43.89	195.10	9.799	146.952
	7	0.1	68.06	0.5332	0.4856	0.0478	67.90	61.80	6.08	0.03745	0.00019	324.8	129.86	68.06	61.80	88.66	29.13	265.98	22.309	601.546
	8	0.1	67.88	1.0764	0.9754	0.1008	137.04	124.20	12.84	0.05300	0.00027	460.4	192.08	67.88	124.20	109.28	58.55	327.84	30.685	885.065
	9	0.1	68.02	1.6178	1.4618	0.1560	206.00	186.14	19.86	0.06457	0.00033	565.6	254.16	68.02	186.14	130.07	87.75	390.20	39.203	1175.943
	10	0.1	103.02	0.5340	0.4866	0.0474	68.02	61.98	6.04	0.03572	0.00018	341.1	165.00	103.02	61.98	123.68	29.22	371.04	44.610	1751.182
	11	0.1	103.04	0.8088	0.7318	0.0772	102.96	93.16	9.80	0.04637	0.00024	394.6	196.20	103.04	93.16	134.09	43.92	402.28	51.050	2083.098
	12	0.1	103.04	1.6178	1.4608	0.1568	205.98	185.98	20.00	0.06382	0.00033	572.0	289.02	103.04	185.98	165.03	87.67	495.10	70.179	3068.609
	13	0.1	136.96	0.8088	0.7312	0.0778	102.98	93.08	9.92	0.04517	0.00023	405.2	230.04	136.96	93.08	167.99	43.88	503.96	81.770	4315.080
	14	0.1	137.00	1.0758	0.9740	0.1018	137.00	124.00	12.98	0.05378	0.00027	452.8	261.00	137.00	124.00	178.33	58.45	535.00	90.283	4898.709
	15	0.1	137.04	2.1598	1.9492	0.2106	275.00	248.16	26.84	0.07326	0.00037	665.4	385.20	137.04	248.16	219.76	116.98	659.28	124.356	7234.039

	Load. Seq.	ε_p	σ_{conf}	$P_{v,max}$	$P_{v,cycle}$	$P_{v,cont}$	$\sigma_{v,max}$	$\sigma_{v,cycle}$	$\sigma_{v,cont}$	Δ_r	ε_r	$MR_{,obs}$	σ_1	σ_3	σ_d	σ_{oct}	τ_{oct}	ϑ	I_2	I_3
	[-]	[%]	[MPa]	[kN]	[kN]	[kN]	[kPa]	[kPa]	[kPa]	[mm]	[mm/mm]	[MPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[MPa]	[MPa]
12FT_1	1	-0.1	20.22	0.1570	0.1416	0.0156	20.00	18.00	1.98	0.01406	0.00007	253.0	38.22	20.22	18.00	26.22	8.49	78.66	1.956	15.654
	2	-0.1	20.00	0.3220	0.2902	0.0318	41.00	36.98	4.04	0.02255	0.00012	321.2	56.98	20.00	36.98	32.33	17.43	96.98	2.680	22.823
	3	-0.1	20.06	0.4868	0.4322	0.0546	62.00	55.02	6.96	0.02818	0.00014	382.3	75.08	20.06	55.02	38.40	25.94	115.20	3.415	30.232
	4	-0.1	33.94	0.2668	0.2432	0.0236	33.98	30.98	3.00	0.01715	0.00009	353.3	64.92	33.94	30.98	44.27	14.60	132.80	5.559	74.796
	5	-0.1	34.00	0.5340	0.4870	0.0472	68.00	61.98	6.02	0.02729	0.00014	443.7	95.98	34.00	61.98	54.66	29.22	163.98	7.683	110.991
	6	-0.1	33.96	0.8092	0.7306	0.0786	102.98	93.00	10.02	0.03521	0.00018	516.2	126.96	33.96	93.00	64.96	43.84	194.88	9.777	146.453
	7	-0.1	68.06	0.5340	0.4866	0.0474	68.00	61.98	6.06	0.02194	0.00011	552.2	130.04	68.06	61.98	88.72	29.22	266.16	22.333	602.371
	8	-0.1	68.04	1.0762	0.9742	0.1022	137.02	124.02	12.98	0.03672	0.00019	660.6	192.06	68.04	124.02	109.38	58.46	328.14	30.765	889.152
	9	-0.1	67.96	1.6182	1.4612	0.1574	206.04	186.04	20.02	0.05022	0.00026	724.5	254.00	67.96	186.04	129.97	87.70	389.92	39.142	1173.132
	10	-0.1	103.00	0.5346	0.4870	0.0474	68.04	62.00	6.04	0.02040	0.00010	594.1	165.00	103.00	62.00	123.67	29.23	371.00	44.599	1750.492
	11	-0.1	103.00	0.8090	0.7306	0.0782	103.02	93.02	10.00	0.02733	0.00014	664.9	196.02	103.00	93.02	134.01	43.85	402.02	50.989	2079.585
	12	-0.1	102.92	1.6180	1.4614	0.1568	206.00	186.06	19.94	0.04697	0.00024	774.9	288.98	102.92	186.06	164.94	87.71	494.82	70.076	3061.043
	13	-0.1	136.98	0.8090	0.7302	0.0788	102.98	92.98	10.04	0.02677	0.00014	678.9	229.96	136.98	92.98	167.97	43.83	503.92	81.763	4314.865
	14	-0.1	136.96	1.0758	0.9744	0.1014	136.98	124.08	12.92	0.03264	0.00017	743.5	261.04	136.96	124.08	178.32	58.49	534.96	90.262	4896.597
	15	-0.1	137.00	2.1596	1.9476	0.2120	274.98	247.98	26.98	0.05810	0.00030	834.4	384.98	137.00	247.98	219.66	116.90	658.98	124.254	7225.690
12FT_2	1	0.0	20.06	0.1574	0.1416	0.0158	20.02	18.02	2.00	0.02310	0.00012	152.9	38.08	20.06	18.02	26.07	8.49	78.20	1.930	15.327
	2	0.1	19.86	0.3226	0.2914	0.0312	41.04	37.08	3.98	0.02923	0.00015	249.1	56.94	19.86	37.08	32.22	17.48	96.66	2.656	22.456
	3	0.1	19.86	0.4876	0.4338	0.0540	62.12	55.24	6.88	0.03254	0.00017	332.3	75.10	19.86	55.24	38.27	26.04	114.82	3.377	29.632
	4	0.1	34.08	0.2666	0.2444	0.0224	33.94	31.10	2.82	0.02572	0.00013	261.0	65.18	34.08	31.10	44.45	14.66	133.34	5.605	75.739
	5	0.1	33.94	0.5346	0.4870	0.0476	68.08	62.04	6.06	0.03180	0.00016	381.7	95.98	33.94	62.04	54.62	29.25	163.86	7.667	110.588
	6	0.1	34.06	0.8088	0.7320	0.0768	102.94	93.20	9.74	0.03779	0.00019	482.9	127.26	34.06	93.20	65.13	43.93	195.38	9.830	147.678
	7	0.1	67.96	0.5342	0.4864	0.0482	68.06	61.94	6.12	0.02459	0.00013	494.2	129.90	67.96	61.94	88.61	29.20	265.82	22.275	599.953
	8	0.1	68.04	1.0766	0.9720	0.1040	137.04	123.78	13.28	0.03735	0.00019	648.1	191.82	68.04	123.78	109.30	58.35	327.90	30.733	888.050
	9	0.1	68.02	1.6178	1.4596	0.1584	206.00	185.80	20.18	0.05205	0.00027	698.8	253.82	68.02	185.80	129.95	87.59	389.86	39.157	1174.368
	10	0.1	103.00	0.5338	0.4878	0.0464	67.98	62.12	5.86	0.02380	0.00012	511.4	165.12	103.00	62.12	123.71	29.28	371.12	44.624	1751.763
	11	0.1	102.96	0.8096	0.7316	0.0778	103.04	93.18	9.88	0.02888	0.00015	632.3	196.14	102.96	93.18	134.02	43.93	402.06	50.990	2079.231
	12	0.1	102.98	1.6176	1.4616	0.1564	205.98	186.06	19.92	0.04818	0.00025	755.9	289.04	102.98	186.06	165.00	87.71	495.00	70.136	3065.240
	13	0.1	136.92	0.8100	0.7292	0.0802	103.08	92.88	10.22	0.02741	0.00014	662.9	229.80	136.92	92.88	167.88	43.78	503.64	81.675	4308.067
	14	0.1	137.00	1.0760	0.9762	0.0996	137.00	124.28	12.70	0.03345	0.00017	728.5	261.28	137.00	124.28	178.43	58.59	535.28	90.360	4903.959
	15	0.1	137.02	2.1600	1.9484	0.2114	275.02	248.06	26.92	0.05809	0.00030	836.1	385.08	137.02	248.06	219.71	116.94	659.12	124.302	7229.712

Allegato 25: Tabelle di modulo resiliente per NAT stagionati 28 giorni

	Load. Seq.	ε_p	σ_{conf}	$P_{v,max}$	$P_{v,cycle}$	$P_{v,cont}$	$\sigma_{v,max}$	$\sigma_{v,cycle}$	$\sigma_{v,cont}$	Δ_r	ε_r	$MR_{,obs}$	σ_1	σ_3	σ_d	σ_{oct}	τ_{oct}	ϑ	I_2	I_3
	[-]	[%]	[MPa]	[kN]	[kN]	[kN]	[kPa]	[kPa]	[kPa]	[mm]	[mm/mm]	[MPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[MPa]	[MPa]
TQ_1	1	0.0	20.08	0.1570	0.1416	0.0150	19.98	18.04	1.94	0.01340	0.00007	264.8	38.12	20.08	18.04	26.09	8.50	78.28	1.935	15.398
	2	0.0	19.86	0.3220	0.2920	0.0300	40.98	37.14	3.82	0.02169	0.00011	335.9	57.00	19.86	37.14	32.24	17.51	96.72	2.660	22.517
	3	0.0	20.04	0.4866	0.4330	0.0538	61.92	55.14	6.84	0.02802	0.00014	387.3	75.18	20.04	55.14	38.42	25.99	115.26	3.415	30.202
	4	0.0	34.12	0.2666	0.2434	0.0232	33.94	31.00	2.94	0.01535	0.00008	397.6	65.12	34.12	31.00	44.45	14.61	133.36	5.609	75.851
	5	0.0	33.92	0.5346	0.4878	0.0466	68.02	62.10	5.94	0.02607	0.00013	467.2	96.02	33.92	62.10	54.62	29.27	163.86	7.665	110.493
	6	0.0	33.88	0.8096	0.7312	0.0784	103.08	93.06	10.00	0.03496	0.00018	522.8	126.94	33.88	93.06	64.90	43.87	194.70	9.751	145.819
	7	0.0	67.98	0.5342	0.4874	0.0468	68.04	62.06	5.96	0.02123	0.00011	575.9	130.04	67.98	62.06	88.67	29.26	266.00	22.302	600.971
	8	0.0	67.96	1.0758	0.9732	0.1026	136.98	123.92	13.06	0.03649	0.00019	667.4	191.88	67.96	123.92	109.27	58.42	327.80	30.699	886.232
	9	0.1	68.00	1.6180	1.4600	0.1582	206.00	185.88	20.14	0.05112	0.00026	714.2	253.88	68.00	185.88	129.96	87.62	389.88	39.152	1173.945
	10	0.0	103.02	0.5344	0.4888	0.0456	68.02	62.24	5.80	0.02388	0.00012	511.9	165.26	103.02	62.24	123.77	29.34	371.30	44.663	1753.932
	11	0.0	102.92	0.8088	0.7298	0.0792	102.98	92.90	10.08	0.02999	0.00015	608.1	195.82	102.92	92.90	133.89	43.79	401.66	50.901	2074.296
	12	0.1	103.04	1.6178	1.4594	0.1582	205.96	185.80	20.14	0.04900	0.00025	744.2	288.84	103.04	185.80	164.97	87.59	494.92	70.142	3066.807
	13	0.0	137.04	0.8090	0.7296	0.0792	102.96	92.90	10.10	0.02983	0.00015	610.7	229.94	137.04	92.90	168.01	43.79	504.02	81.802	4318.296
	14	0.1	137.02	1.0758	0.9738	0.1022	137.02	123.98	13.02	0.03650	0.00019	667.5	261.00	137.02	123.98	178.35	58.44	535.04	90.299	4900.162
	15	0.1	136.98	2.1602	1.9472	0.2128	275.02	247.94	27.08	0.06077	0.00031	800.9	384.92	136.98	247.94	219.63	116.88	658.88	124.216	7222.490
TQ_2	1	0.0	20.02	0.1572	0.1416	0.0156	20.04	18.04	2.02	0.01173	0.00006	306.8	38.06	20.02	18.04	26.03	8.50	78.10	1.925	15.254
	2	0.0	20.04	0.3220	0.2906	0.0314	41.00	37.00	3.98	0.02064	0.00010	355.9	57.04	20.04	37.00	32.37	17.44	97.12	2.688	22.911
	3	0.0	19.98	0.4870	0.4318	0.0552	62.04	55.00	7.02	0.02626	0.00013	415.6	74.98	19.98	55.00	38.31	25.93	114.94	3.395	29.934
	4	0.0	34.04	0.2672	0.2438	0.0234	34.02	31.04	2.98	0.01617	0.00008	381.2	65.08	34.04	31.04	44.39	14.63	133.16	5.589	75.410
	5	0.0	34.02	0.5340	0.4870	0.0470	67.98	62.02	5.96	0.02569	0.00013	479.7	96.04	34.02	62.02	54.69	29.24	164.08	7.692	111.153
	6	0.0	34.10	0.8086	0.7304	0.0784	102.96	93.00	9.98	0.03226	0.00016	572.0	127.10	34.10	93.00	65.10	43.84	195.30	9.831	147.813
	7	0.0	68.02	0.5340	0.4874	0.0464	67.98	62.08	5.94	0.02195	0.00011	561.7	130.10	68.02	62.08	88.71	29.26	266.14	22.326	601.938
	8	0.0	67.98	1.0760	0.9736	0.1024	137.02	123.98	13.02	0.03535	0.00018	696.6	191.96	67.98	123.98	109.31	58.44	327.92	30.720	887.102
	9	0.1	68.04	1.6174	1.4608	0.1564	205.92	186.02	19.92	0.04773	0.00024	773.9	254.06	68.04	186.02	130.05	87.69	390.14	39.202	1176.179
	10	0.1	103.06	0.5342	0.4870	0.0470	68.02	62.00	6.02	0.02206	0.00011	557.7	165.06	103.06	62.00	123.73	29.23	371.18	44.644	1753.187
	11	0.1	103.02	0.8088	0.7316	0.0774	103.00	93.12	9.84	0.02871	0.00014	643.8	196.14	103.02	93.12	134.06	43.90	402.18	51.026	2081.662
	12	0.1	103.00	1.6178	1.4612	0.1566	206.00	186.06	19.94	0.04585	0.00023	805.6	289.06	103.00	186.06	165.02	87.71	495.06	70.155	3066.655
	13	0.1	136.96	0.8090	0.7310	0.0778	103.00	93.08	9.92	0.02807	0.00014	658.4	230.04	136.96	93.08	167.99	43.88	503.96	81.771	4315.105
	14	0.1	137.06	1.0760	0.9744	0.1014	136.98	124.08	12.90	0.03413	0.00017	722.4	261.14	137.06	124.08	178.42	58.49	535.26	90.369	4905.637
	15	0.1	136.96	2.1598	1.9474	0.2122	275.00	247.98	27.02	0.05536	0.00028	889.6	384.94	136.96	247.98	219.62	116.90	658.86	124.201	7220.722

	Load. Seq.	ε_p	σ_{conf}	$P_{v,max}$	$P_{v,cycle}$	$P_{v,cont}$	$\sigma_{v,max}$	$\sigma_{v,cycle}$	$\sigma_{v,cont}$	Δ_r	ε_r	$MR_{,obs}$	σ_1	σ_3	σ_d	σ_{oct}	τ_{oct}	ϑ	I_2	I_3
	[-]	[%]	[MPa]	[kN]	[kN]	[kN]	[kPa]	[kPa]	[kPa]	[mm]	[mm/mm]	[MPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[MPa]	[MPa]
4FT_1	1	0.0	20.08	0.1648	0.1416	0.0232	20.98	18.02	2.98	0.02905	0.00015	122.6	38.10	20.08	18.02	26.09	8.49	78.26	1.934	15.383
	2	0.0	20.14	0.3218	0.2910	0.0308	40.98	37.04	3.94	0.03524	0.00018	208.4	57.18	20.14	37.04	32.49	17.46	97.46	2.710	23.224
	3	0.0	20.02	0.4872	0.4320	0.0552	61.98	54.98	7.00	0.03984	0.00020	272.3	75.00	20.02	54.98	38.35	25.92	115.04	3.404	30.073
	4	0.0	34.00	0.2676	0.2436	0.0238	34.06	31.04	3.04	0.03137	0.00016	196.3	65.04	34.00	31.04	44.35	14.63	133.04	5.579	75.207
	5	0.0	34.02	0.5340	0.4866	0.0474	68.00	61.96	6.02	0.03609	0.00018	338.7	95.98	34.02	61.96	54.67	29.21	164.02	7.688	111.098
	6	0.0	34.04	0.8090	0.7302	0.0786	103.00	93.00	10.00	0.04371	0.00022	419.9	127.04	34.04	93.00	65.04	43.84	195.12	9.808	147.228
	7	0.0	68.00	0.5338	0.4868	0.0476	67.98	61.98	6.02	0.02659	0.00014	459.2	129.98	68.00	61.98	88.66	29.22	265.98	22.301	601.043
	8	0.0	68.00	1.0760	0.9744	0.1020	137.06	124.04	12.96	0.04088	0.00021	598.2	192.04	68.00	124.04	109.35	58.47	328.04	30.742	888.005
	9	0.0	67.98	1.6178	1.4610	0.1566	205.98	186.04	19.94	0.05502	0.00028	666.9	254.02	67.98	186.04	129.99	87.70	389.98	39.158	1173.909
	10	0.0	103.02	0.5342	0.4870	0.0476	68.02	62.02	6.04	0.02472	0.00013	495.6	165.04	103.02	62.02	123.69	29.24	371.08	44.618	1751.596
	11	0.0	103.00	0.8090	0.7306	0.0784	103.02	93.02	9.98	0.03083	0.00016	595.8	196.02	103.00	93.02	134.01	43.85	402.02	50.989	2079.589
	12	0.0	102.98	1.6180	1.4610	0.1570	206.04	186.00	20.02	0.05088	0.00026	720.6	288.98	102.98	186.00	164.98	87.68	494.94	70.123	3064.601
	13	-0.1	136.98	0.8092	0.7294	0.0798	103.02	92.88	10.14	0.02870	0.00015	639.0	229.86	136.98	92.88	167.94	43.78	503.82	81.736	4312.984
	14	-0.1	136.94	1.0756	0.9742	0.1016	137.02	124.04	12.96	0.03550	0.00018	690.0	260.98	136.94	124.04	178.29	58.47	534.86	90.230	4894.047
	15	0.0	137.00	2.1594	1.9480	0.2118	274.96	248.04	26.96	0.06036	0.00031	810.1	385.04	137.00	248.04	219.68	116.93	659.04	124.270	7226.816
4FT_2	1	0.0	20.00	0.1648	0.1414	0.0234	20.96	18.02	2.96	0.01747	0.00009	203.3	38.02	20.00	18.02	26.01	8.49	78.02	1.921	15.225
	2	0.0	20.02	0.3220	0.2912	0.0312	41.00	37.02	3.98	0.02932	0.00015	248.6	57.04	20.02	37.02	32.36	17.45	97.08	2.685	22.868
	3	0.0	20.08	0.4872	0.4324	0.0544	62.00	55.08	6.94	0.03501	0.00018	309.6	75.16	20.08	55.08	38.44	25.96	115.32	3.422	30.323
	4	0.0	34.02	0.2670	0.2436	0.0236	33.98	31.02	2.98	0.02153	0.00011	284.3	65.04	34.02	31.02	44.36	14.62	133.08	5.583	75.286
	5	0.0	33.88	0.5340	0.4870	0.0472	68.02	62.00	6.02	0.03258	0.00017	374.9	95.88	33.88	62.00	54.55	29.23	163.64	7.645	110.073
	6	0.0	34.00	0.8088	0.7306	0.0782	102.98	93.00	9.98	0.03991	0.00020	458.7	127.00	34.00	93.00	65.00	43.84	195.00	9.792	146.820
	7	0.0	67.98	0.5342	0.4870	0.0472	68.02	62.00	6.00	0.02407	0.00012	506.8	129.98	67.98	62.00	88.65	29.23	265.94	22.293	600.681
	8	0.0	68.00	1.0760	0.9736	0.1024	137.00	123.96	13.04	0.03923	0.00020	622.3	191.96	68.00	123.96	109.32	58.44	327.96	30.731	887.627
	9	0.0	67.98	1.6178	1.4604	0.1570	206.00	185.98	20.02	0.05340	0.00027	685.3	253.96	67.98	185.98	129.97	87.67	389.92	39.150	1173.620
	10	0.0	103.00	0.5342	0.4872	0.0470	68.00	62.02	5.98	0.02331	0.00012	523.1	165.02	103.00	62.02	123.67	29.24	371.02	44.603	1750.742
	11	0.0	102.92	0.8092	0.7306	0.0786	103.02	93.02	10.00	0.03035	0.00015	603.3	195.94	102.92	93.02	133.93	43.85	401.78	50.925	2075.524
	12	0.0	102.96	1.6178	1.4608	0.1572	206.00	186.00	20.00	0.04968	0.00025	736.5	288.96	102.96	186.00	164.96	87.68	494.88	70.104	3063.215
	13	0.0	136.98	0.8088	0.7306	0.0782	102.98	93.02	9.96	0.02858	0.00015	641.2	230.00	136.98	93.02	167.99	43.85	503.96	81.775	4315.642
	14	0.0	136.98	1.0760	0.9736	0.1026	137.04	123.98	13.04	0.03510	0.00018	695.0	260.96	136.98	123.98	178.31	58.44	534.92	90.256	4896.539
	15	0.1	136.98	2.1600	1.9478	0.2120	275.02	248.02	27.02	0.06022	0.00031	810.1	385.00	136.98	248.02	219.65	116.92	658.96	124.238	7223.968

	Load. Seq.	ε_p	σ_{conf}	$P_{v,max}$	$P_{v,cycle}$	$P_{v,cont}$	$\sigma_{v,max}$	$\sigma_{v,cycle}$	$\sigma_{v,cont}$	Δ_r	ε_r	$MR_{,obs}$	σ_1	σ_3	σ_d	σ_{oct}	τ_{oct}	ϑ	I_2	I_3
	[-]	[%]	[MPa]	[kN]	[kN]	[kN]	[kPa]	[kPa]	[kPa]	[mm]	[mm/mm]	[MPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[MPa]	[MPa]
8FT_1	1	0.0	20.04	0.1574	0.1418	0.0154	20.04	18.04	2.00	0.03169	0.00016	112.7	38.08	20.04	18.04	26.05	8.50	78.16	1.928	15.294
	2	0.0	19.96	0.3220	0.2906	0.0316	41.00	37.00	4.02	0.02783	0.00014	262.5	56.96	19.96	37.00	32.29	17.44	96.88	2.673	22.705
	3	0.0	20.04	0.4870	0.4326	0.0542	61.98	55.12	6.90	0.03353	0.00017	324.3	75.16	20.04	55.12	38.41	25.98	115.24	3.414	30.199
	4	0.1	33.98	0.2672	0.2438	0.0230	34.00	31.06	2.94	0.02126	0.00011	291.0	65.04	33.98	31.06	44.33	14.64	133.00	5.575	75.099
	5	0.1	34.02	0.5340	0.4868	0.0472	67.96	61.96	5.98	0.03023	0.00015	405.1	95.98	34.02	61.96	54.67	29.21	164.02	7.688	111.087
	6	0.1	33.94	0.8092	0.7302	0.0786	102.98	92.98	10.00	0.03729	0.00019	491.8	126.92	33.94	92.98	64.93	43.83	194.80	9.768	146.223
	7	0.1	68.04	0.5340	0.4872	0.0474	68.08	62.02	6.02	0.02270	0.00012	539.3	130.06	68.04	62.02	88.71	29.24	266.14	22.328	602.106
	8	0.1	68.04	1.0758	0.9742	0.1016	137.02	124.04	12.96	0.03609	0.00018	678.3	192.08	68.04	124.04	109.39	58.47	328.16	30.768	889.222
	9	0.1	67.96	1.6178	1.4608	0.1572	205.98	186.00	20.00	0.04910	0.00025	746.4	253.96	67.96	186.00	129.96	87.68	389.88	39.137	1172.941
	10	0.1	103.02	0.5340	0.4870	0.0472	68.02	62.00	6.02	0.02095	0.00011	584.0	165.02	103.02	62.00	123.69	29.23	371.06	44.614	1751.376
	11	0.1	103.00	0.8102	0.7318	0.0782	103.16	93.20	9.96	0.02763	0.00014	665.0	196.20	103.00	93.20	134.07	43.93	402.20	51.026	2081.485
	12	0.1	103.00	1.6180	1.4592	0.1586	206.02	185.80	20.20	0.04573	0.00023	801.3	288.80	103.00	185.80	164.93	87.59	494.80	70.102	3063.895
	13	0.1	137.02	0.8090	0.7300	0.0790	102.96	92.94	10.02	0.02568	0.00013	714.1	229.96	137.02	92.94	168.00	43.81	504.00	81.793	4317.436
	14	0.1	137.06	1.0758	0.9724	0.1032	136.98	123.82	13.16	0.03169	0.00016	770.8	260.88	137.06	123.82	178.33	58.37	535.00	90.298	4900.777
	15	0.1	136.98	2.1594	1.9488	0.2112	274.98	248.10	26.86	0.05553	0.00028	879.9	385.08	136.98	248.10	219.68	116.96	659.04	124.260	7225.456
8FT_2	1	0.1	20.04	0.1572	0.1412	0.0158	20.02	18.00	2.04	0.02791	0.00014	127.7	38.04	20.04	18.00	26.04	8.49	78.12	1.927	15.286
	2	0.1	19.96	0.3218	0.2900	0.0318	40.98	36.96	4.08	0.03994	0.00020	183.1	56.92	19.96	36.96	32.28	17.42	96.84	2.671	22.679
	3	0.1	20.26	0.4864	0.4318	0.0546	61.96	55.00	6.96	0.04514	0.00023	240.9	75.26	20.26	55.00	38.59	25.93	115.78	3.460	30.902
	4	0.1	33.96	0.2670	0.2434	0.0232	33.98	31.00	2.98	0.03288	0.00017	186.6	64.96	33.96	31.00	44.29	14.61	132.88	5.566	74.926
	5	0.1	33.96	0.5340	0.4874	0.0466	68.04	62.06	5.94	0.04491	0.00023	273.2	96.02	33.96	62.06	54.65	29.26	163.94	7.675	110.745
	6	0.1	34.02	0.8090	0.7308	0.0780	102.98	93.06	9.94	0.04925	0.00025	373.8	127.08	34.02	93.06	65.04	43.87	195.12	9.804	147.108
	7	0.1	68.00	0.5338	0.4858	0.0482	67.96	61.86	6.14	0.03913	0.00020	313.0	129.86	68.00	61.86	88.62	29.16	265.86	22.285	600.475
	8	0.1	67.96	1.0764	0.9736	0.1028	137.02	123.94	13.10	0.05221	0.00026	470.0	191.90	67.96	123.94	109.27	58.43	327.82	30.702	886.303
	9	0.1	68.06	1.6176	1.4604	0.1570	205.96	185.98	20.02	0.06375	0.00032	577.2	254.04	68.06	185.98	130.05	87.67	390.16	39.212	1176.759
	10	0.1	103.06	0.5344	0.4864	0.0478	68.00	61.94	6.06	0.03962	0.00020	309.8	165.00	103.06	61.94	123.71	29.20	371.12	44.631	1752.523
	11	0.1	102.96	0.8094	0.7310	0.0780	103.02	93.04	9.98	0.04700	0.00024	391.8	196.00	102.96	93.04	133.97	43.86	401.92	50.961	2077.781
	12	0.1	102.94	1.6186	1.4628	0.1560	206.08	186.24	19.84	0.06247	0.00032	590.0	289.18	102.94	186.24	165.02	87.79	495.06	70.133	3064.373
	13	0.1	137.08	0.8090	0.7292	0.0796	102.98	92.80	10.16	0.04565	0.00023	402.8	229.88	137.08	92.80	168.01	43.75	504.04	81.815	4319.695
	14	0.1	137.02	1.0756	0.9724	0.1032	136.96	123.84	13.14	0.05067	0.00026	483.8	260.86	137.02	123.84	178.30	58.38	534.90	90.261	4897.530
	15	0.1	137.04	2.1592	1.9470	0.2120	274.90	247.92	27.02	0.06954	0.00035	705.3	384.96	137.04	247.92	219.68	116.87	659.04	124.290	7229.555

|	Load. Seq.	ε_p	σ_{conf}	$P_{v,max}$	$P_{v,cycle}$	$P_{v,cont}$	$\sigma_{v,max}$	$\sigma_{v,cycle}$	$\sigma_{v,cont}$	Δ_r	ε_r	$MR_{,obs}$	σ_1	σ_3	σ_d	σ_{oct}	τ_{oct}	ϑ	I_2	I_3
	[-]	[%]	[MPa]	[kN]	[kN]	[kN]	[kPa]	[kPa]	[kPa]	[mm]	[mm/mm]	[MPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[kPa]	[MPa]	[MPa]
12FT_1	1	0.0	20.04	0.1570	0.1412	0.0158	19.98	17.98	2.00	0.02069	0.00011	172.1	38.02	20.04	17.98	26.03	8.48	78.10	1.926	15.275
	2	0.0	20.02	0.3220	0.2904	0.0318	41.02	37.00	4.02	0.02691	0.00014	269.9	57.02	20.02	37.00	32.35	17.44	97.06	2.684	22.860
	3	0.0	20.00	0.4870	0.4316	0.0550	62.00	55.00	7.00	0.03145	0.00016	342.6	75.00	20.00	55.00	38.33	25.93	115.00	3.400	30.012
	4	0.0	34.04	0.2672	0.2434	0.0234	33.98	31.00	3.00	0.02169	0.00011	280.7	65.04	34.04	31.00	44.37	14.61	133.12	5.587	75.393
	5	0.0	34.00	0.5338	0.4866	0.0472	68.02	61.98	6.02	0.02999	0.00015	405.3	95.98	34.00	61.98	54.66	29.22	163.98	7.683	110.956
	6	0.1	33.96	0.8090	0.7304	0.0786	103.02	93.04	10.02	0.03814	0.00019	477.5	127.00	33.96	93.04	64.97	43.86	194.92	9.780	146.491
	7	0.0	68.00	0.5342	0.4868	0.0474	67.98	61.96	6.02	0.02418	0.00012	501.5	129.96	68.00	61.96	88.65	29.21	265.96	22.299	600.934
	8	0.0	68.00	1.0756	0.9728	0.1026	136.94	123.86	13.08	0.03801	0.00019	638.7	191.86	68.00	123.86	109.29	58.39	327.86	30.717	887.181
	9	0.1	68.00	1.6184	1.4614	0.1566	206.04	186.10	19.94	0.05157	0.00026	707.1	254.10	68.00	186.10	130.03	87.73	390.10	39.182	1174.969
	10	0.1	103.02	0.5340	0.4868	0.0472	67.96	61.98	5.98	0.02245	0.00011	541.4	165.00	103.02	61.98	123.68	29.22	371.04	44.610	1751.165
	11	0.1	103.02	0.8086	0.7304	0.0782	102.92	93.00	9.98	0.02907	0.00015	625.9	196.02	103.02	93.00	134.02	43.84	402.06	51.001	2080.385
	12	0.1	103.06	1.6180	1.4614	0.1568	206.00	186.08	19.94	0.04710	0.00024	773.4	289.14	103.06	186.08	165.09	87.72	495.26	70.219	3071.073
	13	0.1	137.02	0.8088	0.7302	0.0786	102.94	92.94	10.02	0.02722	0.00014	668.8	229.96	137.02	92.94	168.00	43.81	504.00	81.793	4317.384
	14	0.1	137.00	1.0758	0.9736	0.1024	137.00	123.94	13.02	0.03319	0.00017	731.0	260.94	137.00	123.94	178.31	58.43	534.94	90.267	4897.598
	15	0.1	137.00	2.1602	1.9476	0.2122	275.02	248.00	27.02	0.05615	0.00029	865.3	385.00	137.00	248.00	219.67	116.91	659.00	124.259	7226.078
12FT_2	1	0.0	20.08	0.1566	0.1408	0.0158	19.94	17.92	2.04	0.01477	0.00008	240.6	38.00	20.08	17.92	26.05	8.45	78.16	1.930	15.342
	2	0.0	20.04	0.3218	0.2898	0.0318	40.96	36.90	4.06	0.02325	0.00012	312.5	56.94	20.04	36.90	32.34	17.39	97.02	2.684	22.870
	3	0.0	19.94	0.4872	0.4318	0.0554	62.04	54.96	7.04	0.02884	0.00015	376.4	74.90	19.94	54.96	38.26	25.91	114.78	3.385	29.789
	4	0.0	33.96	0.2674	0.2434	0.0238	34.02	31.00	3.02	0.01843	0.00009	330.9	64.96	33.96	31.00	44.29	14.61	132.88	5.566	74.932
	5	0.1	34.06	0.5340	0.4864	0.0474	67.96	61.94	6.04	0.02885	0.00015	422.4	96.00	34.06	61.94	54.71	29.20	164.12	7.700	111.388
	6	0.1	34.04	0.8094	0.7312	0.0782	103.06	93.08	9.96	0.03620	0.00018	504.9	127.12	34.04	93.08	65.07	43.88	195.20	9.813	147.304
	7	0.1	68.02	0.5342	0.4870	0.0472	68.00	62.02	6.00	0.02441	0.00012	500.7	130.04	68.02	62.02	88.69	29.24	266.08	22.317	601.659
	8	0.1	67.98	1.0764	0.9744	0.1020	137.04	124.10	12.98	0.03900	0.00020	626.2	192.08	67.98	124.10	109.35	58.50	328.04	30.737	887.667
	9	0.1	68.00	1.6184	1.4622	0.1562	206.02	186.14	19.88	0.05277	0.00027	694.3	254.14	68.00	186.14	130.05	87.75	390.14	39.188	1175.205
	10	0.1	103.00	0.5338	0.4866	0.0472	68.00	61.96	6.02	0.02302	0.00012	529.9	164.96	103.00	61.96	123.65	29.21	370.96	44.591	1750.067
	11	0.1	103.04	0.8084	0.7300	0.0784	102.96	92.96	10.00	0.03058	0.00016	598.6	196.00	103.04	92.96	134.03	43.82	402.08	51.009	2080.977
	12	0.1	102.96	1.6184	1.4610	0.1574	206.04	186.04	20.04	0.05002	0.00025	731.9	289.00	102.96	186.04	164.97	87.70	494.92	70.112	3063.647
	13	0.1	137.04	0.8090	0.7306	0.0786	103.02	93.00	10.00	0.02909	0.00015	629.4	230.04	137.04	93.00	168.04	43.84	504.12	81.829	4320.168
	14	0.1	137.02	1.0766	0.9752	0.1018	137.08	124.14	12.94	0.03571	0.00018	684.8	261.16	137.02	124.14	178.40	58.52	535.20	90.343	4903.140
	15	0.1	137.00	2.1594	1.9466	0.2128	274.94	247.86	27.10	0.06039	0.00031	806.9	384.86	137.00	247.86	219.62	116.84	658.86	124.221	7223.449

Allegato 26: Curve di compressione semplice non confinata per i CDWA stagionati 7 giorni
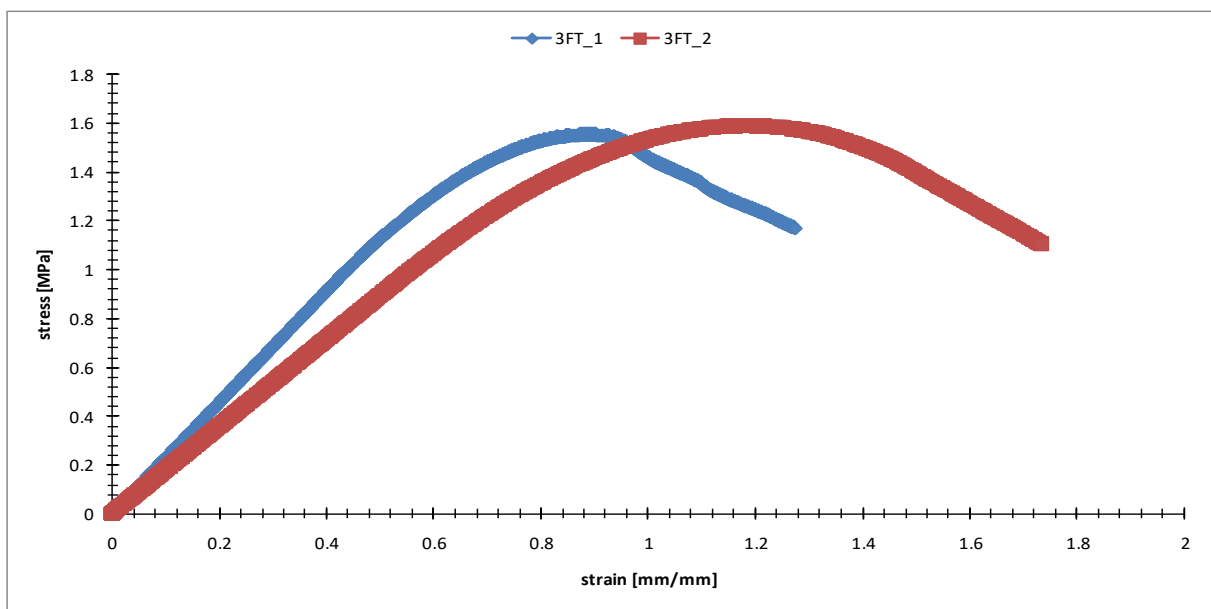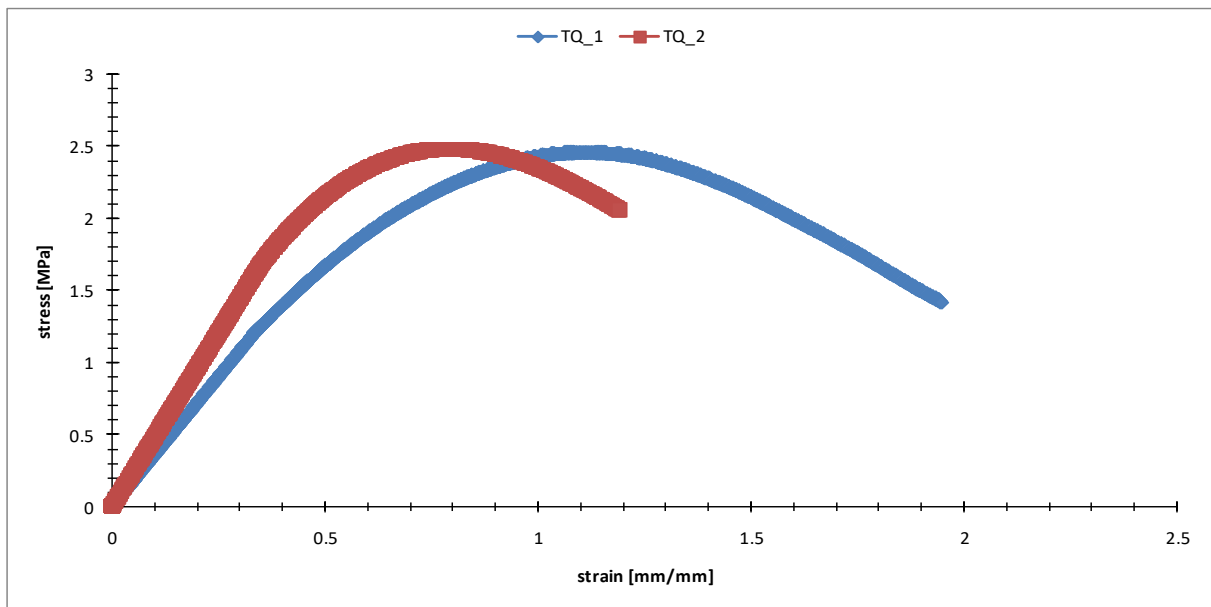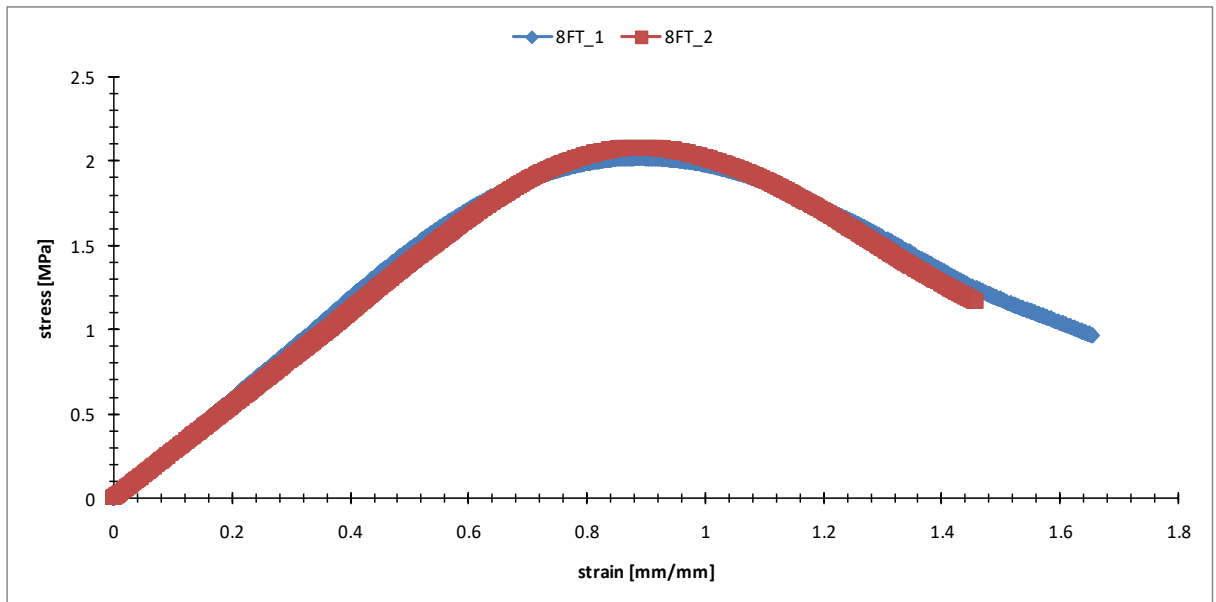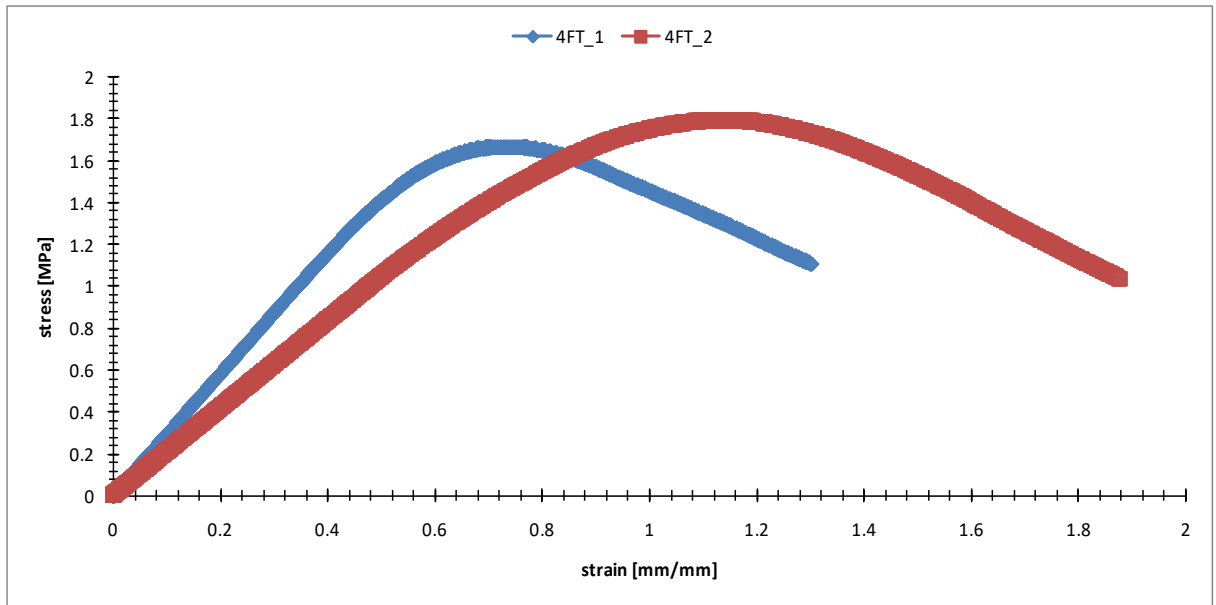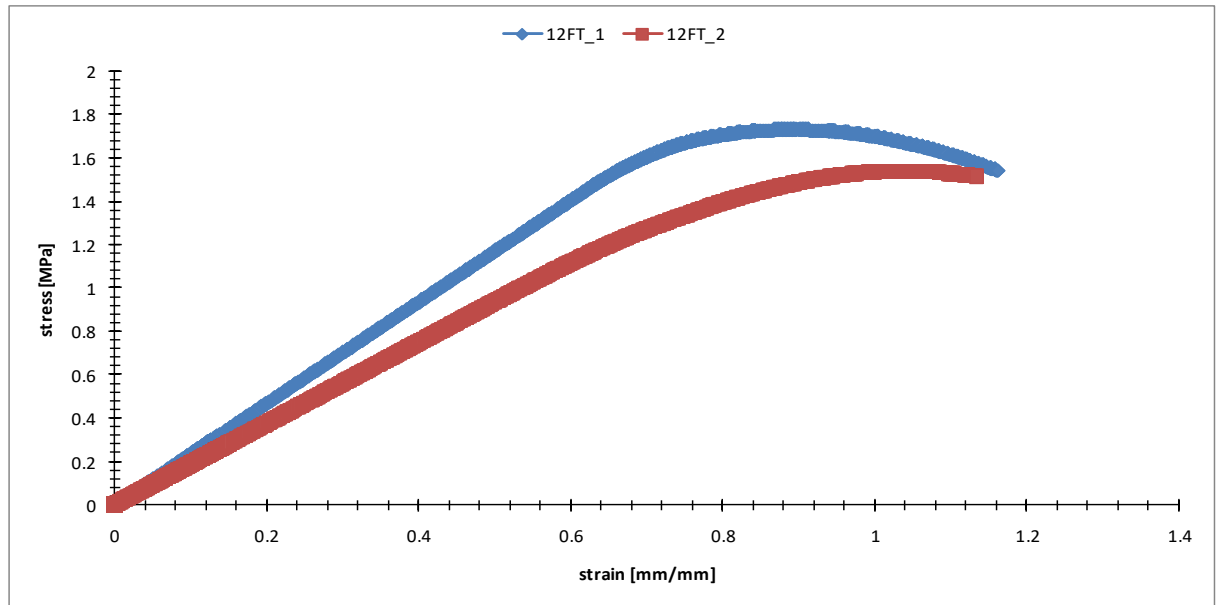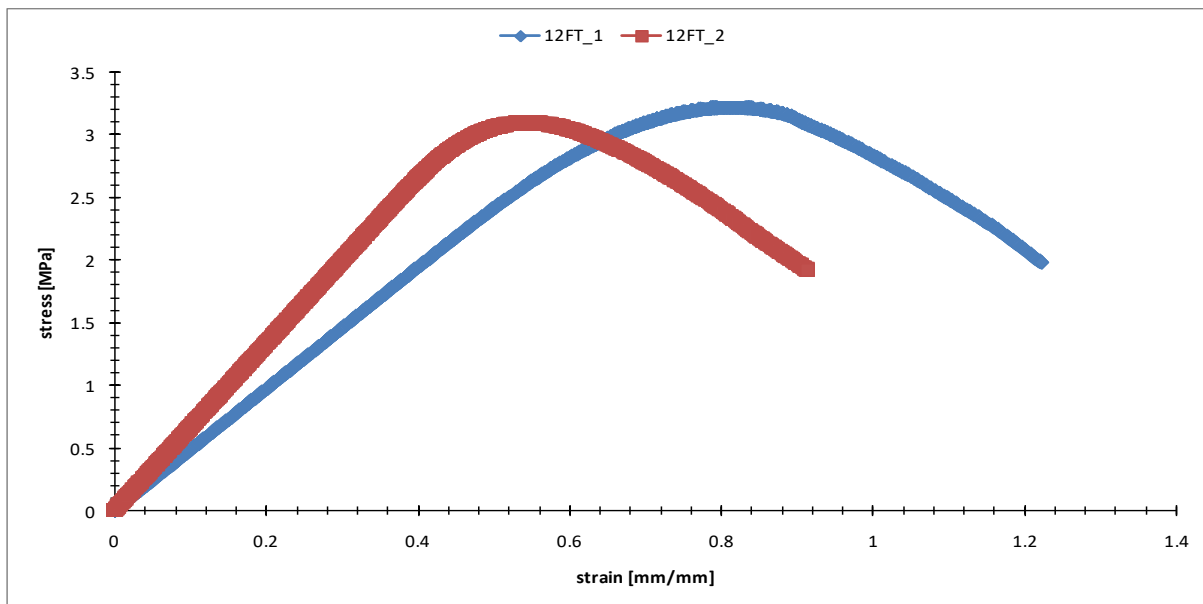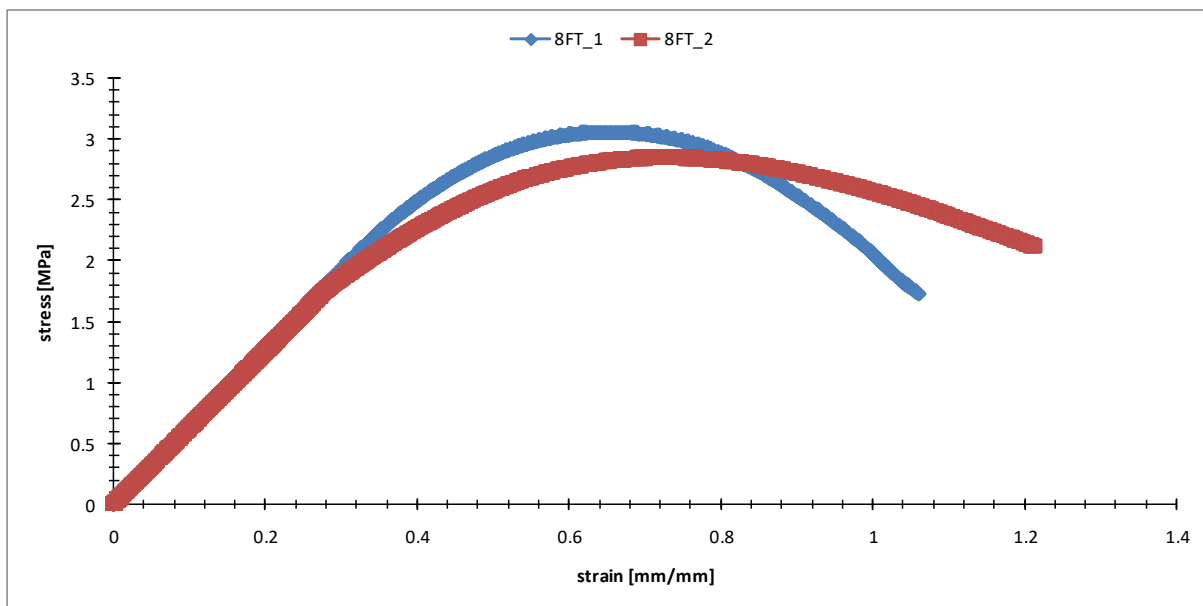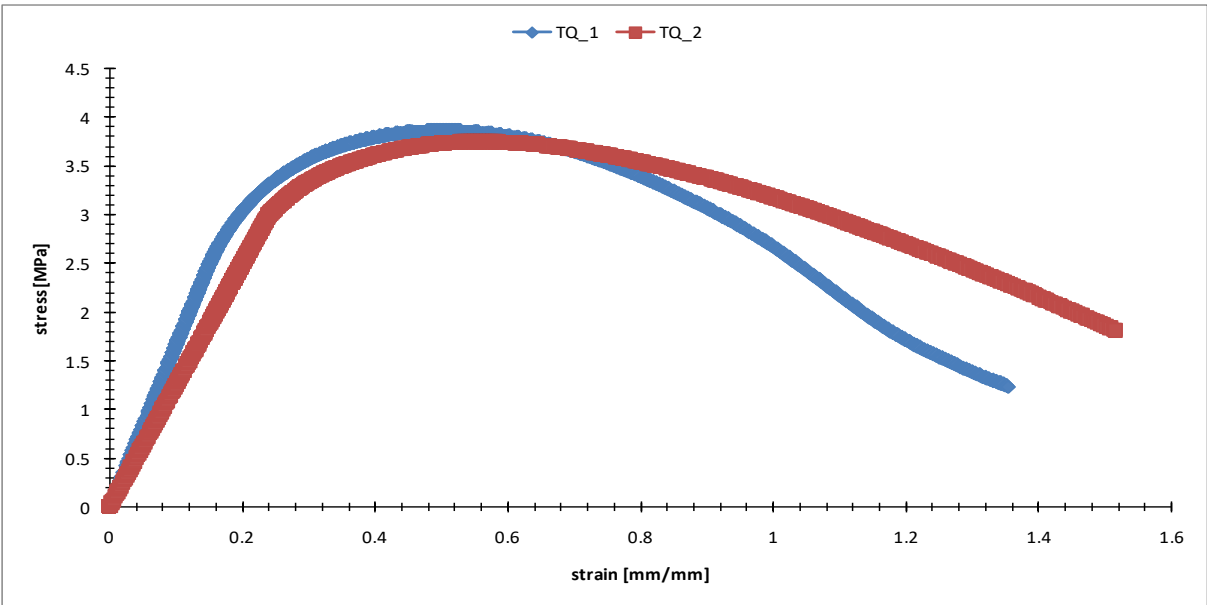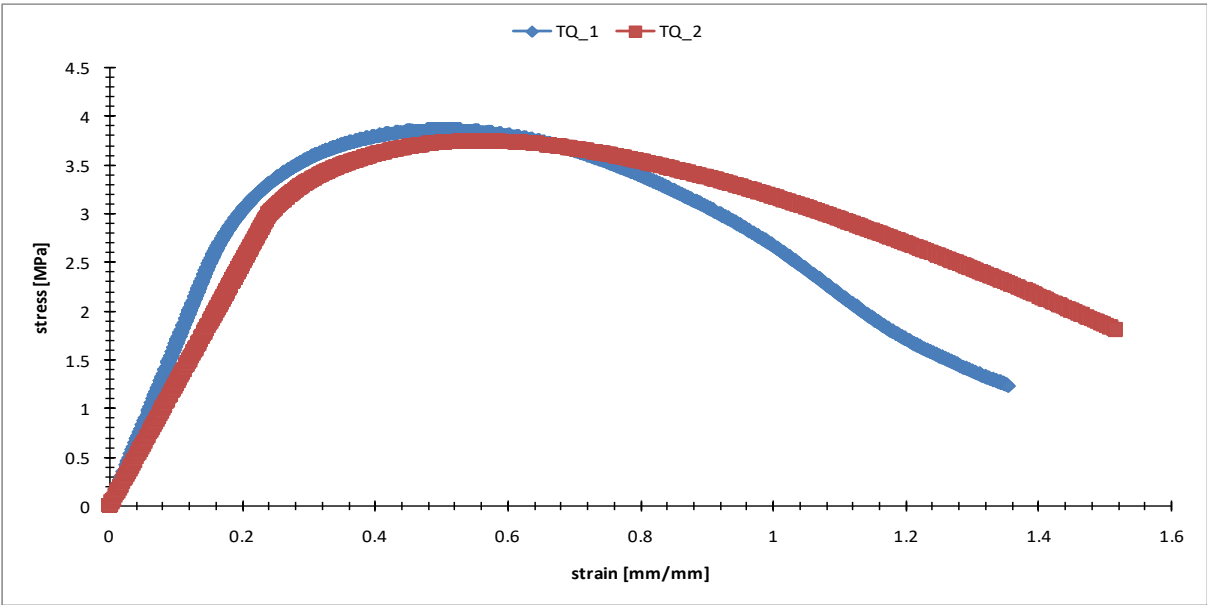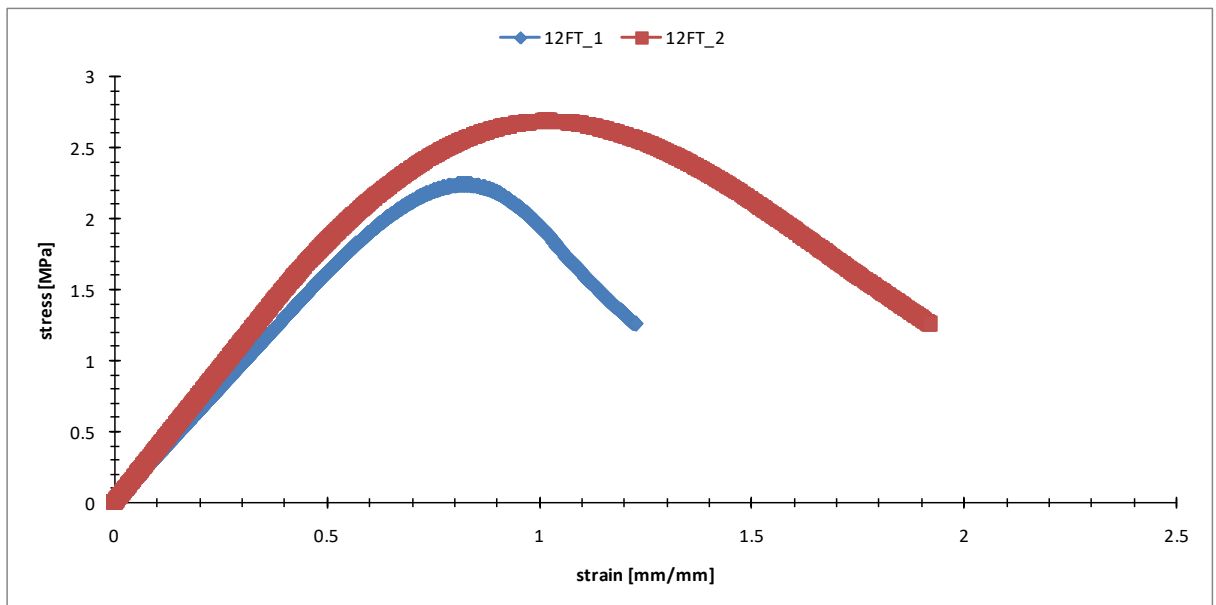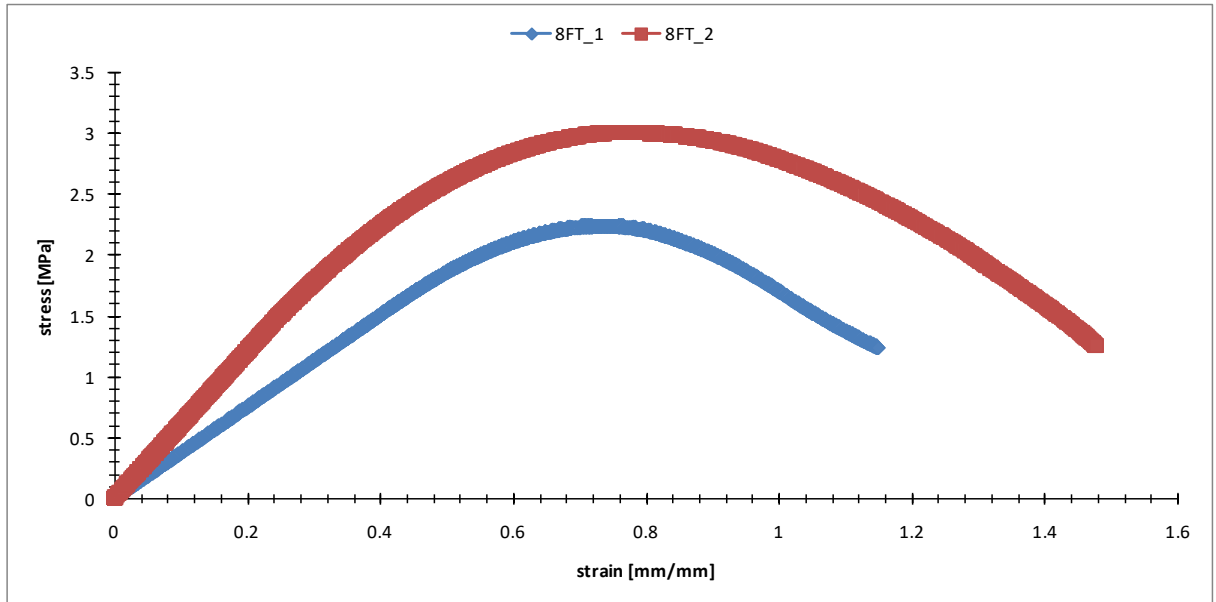
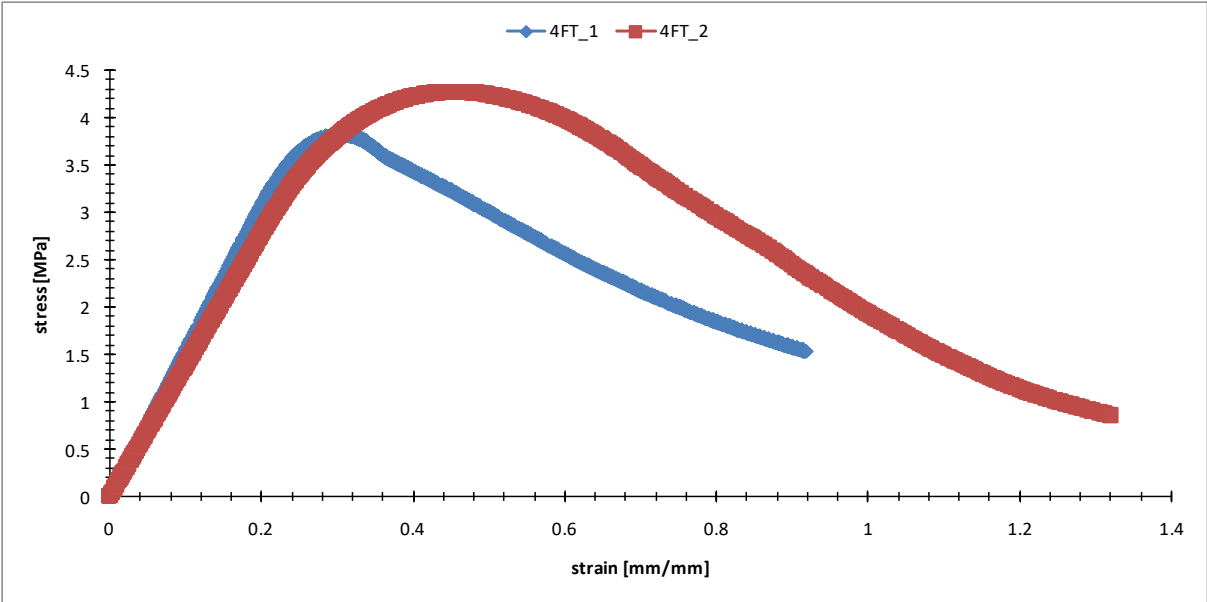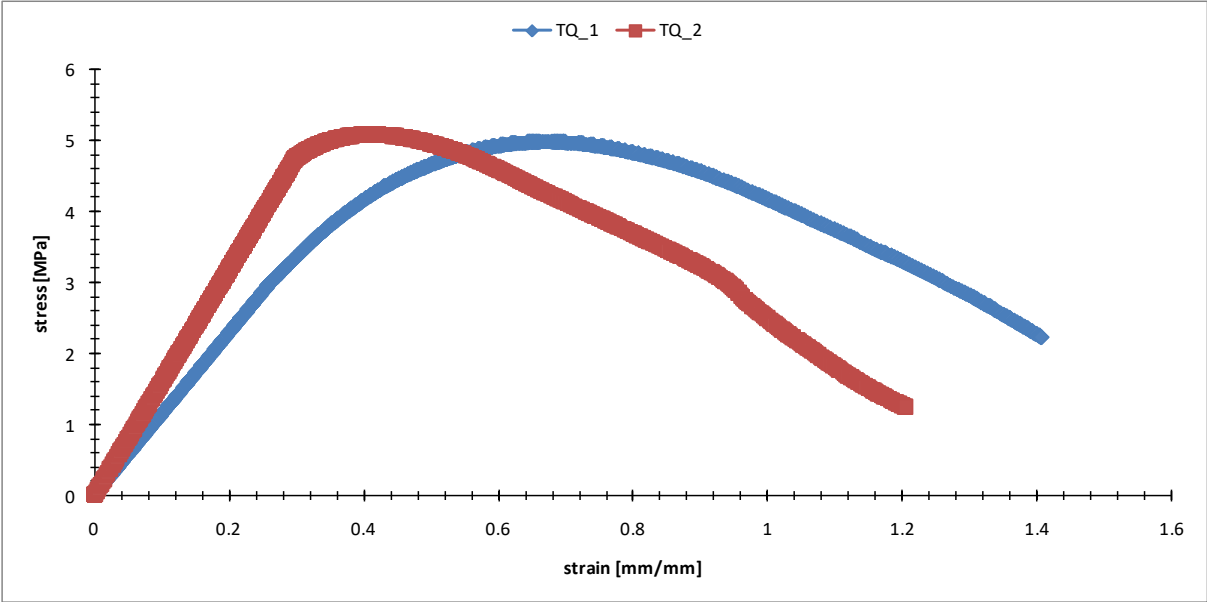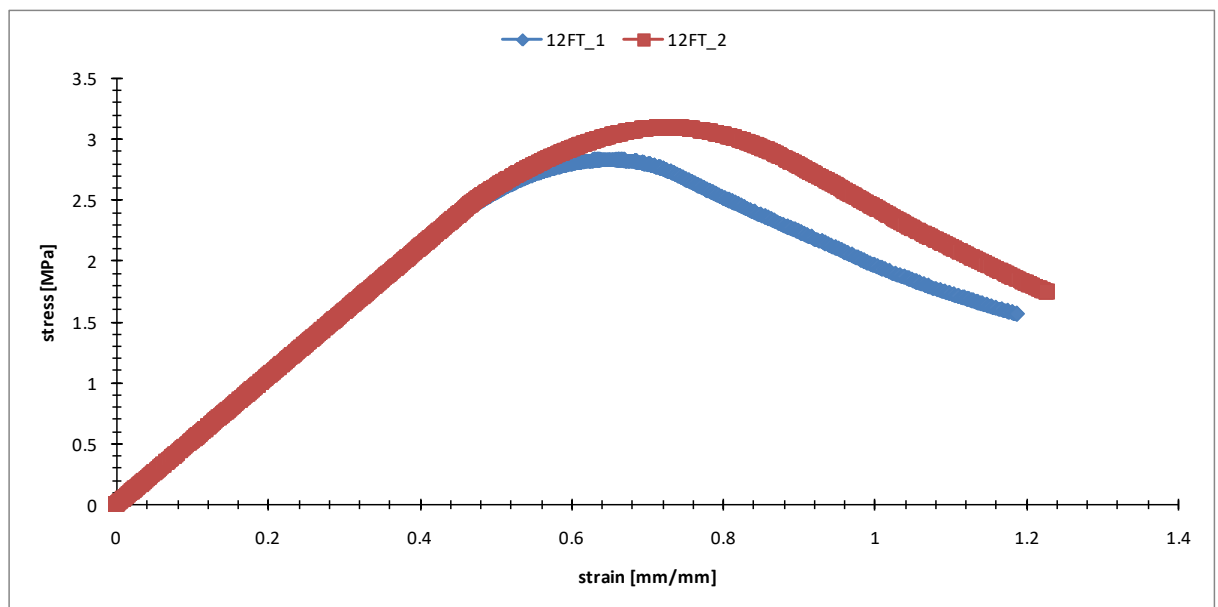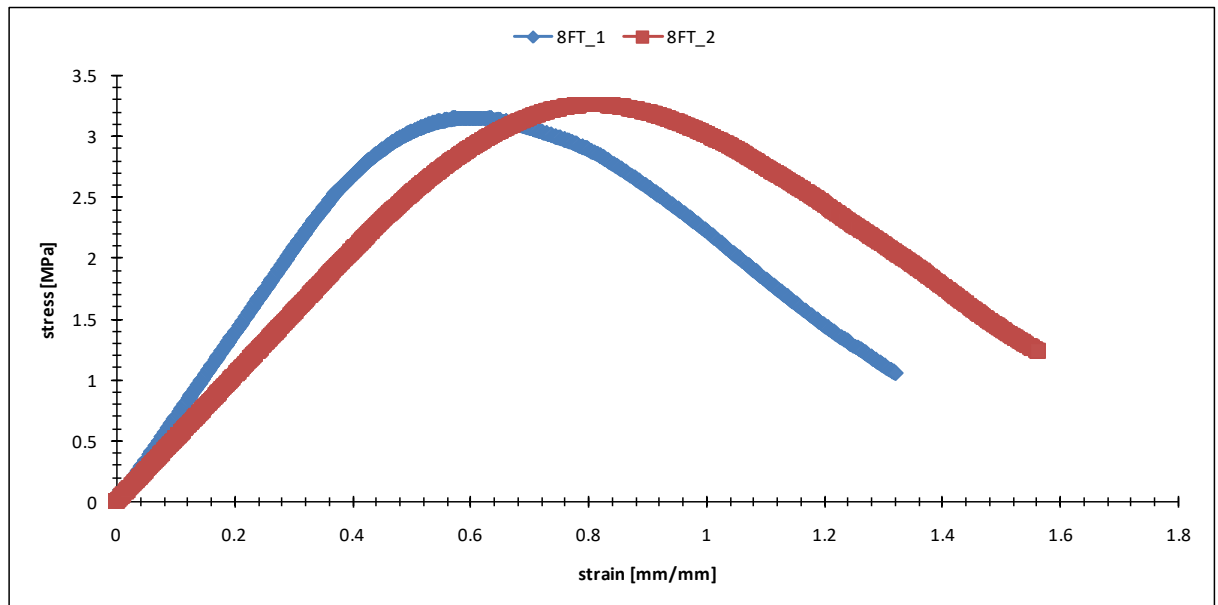# Allegato 27: Curve di compressione semplice non confinata per i CDWA stagionati 28 giorni
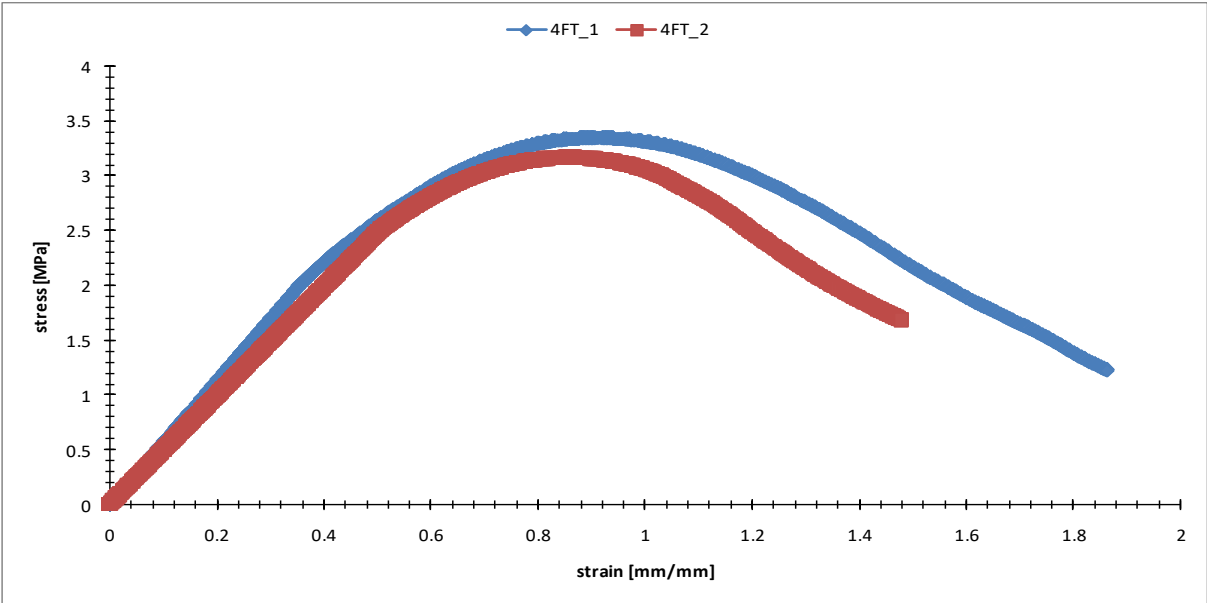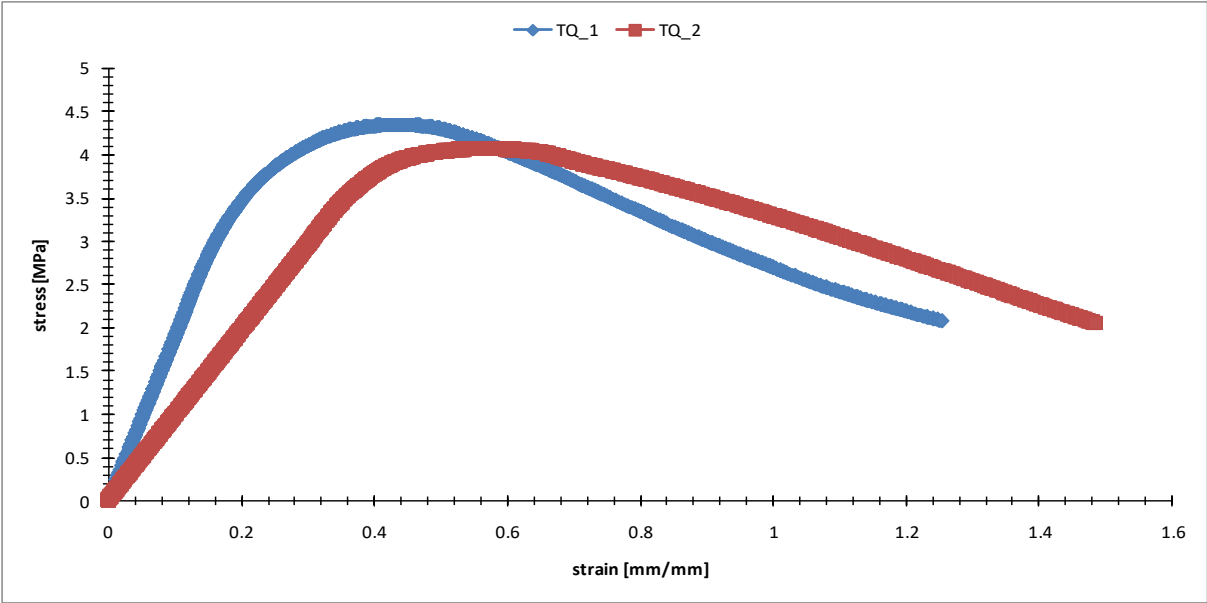
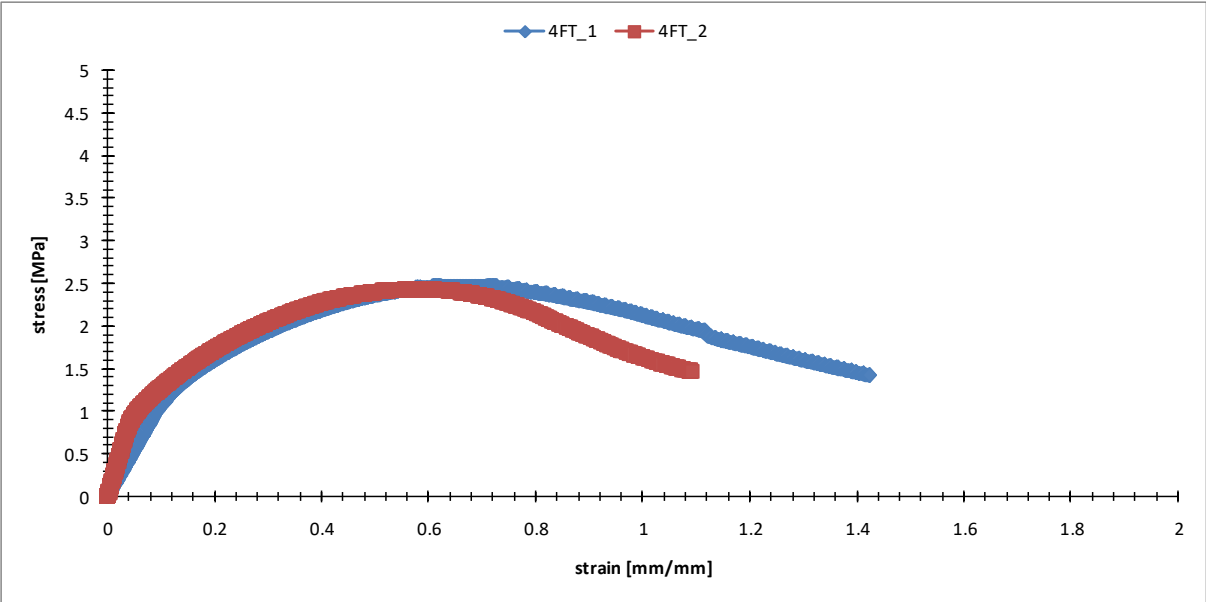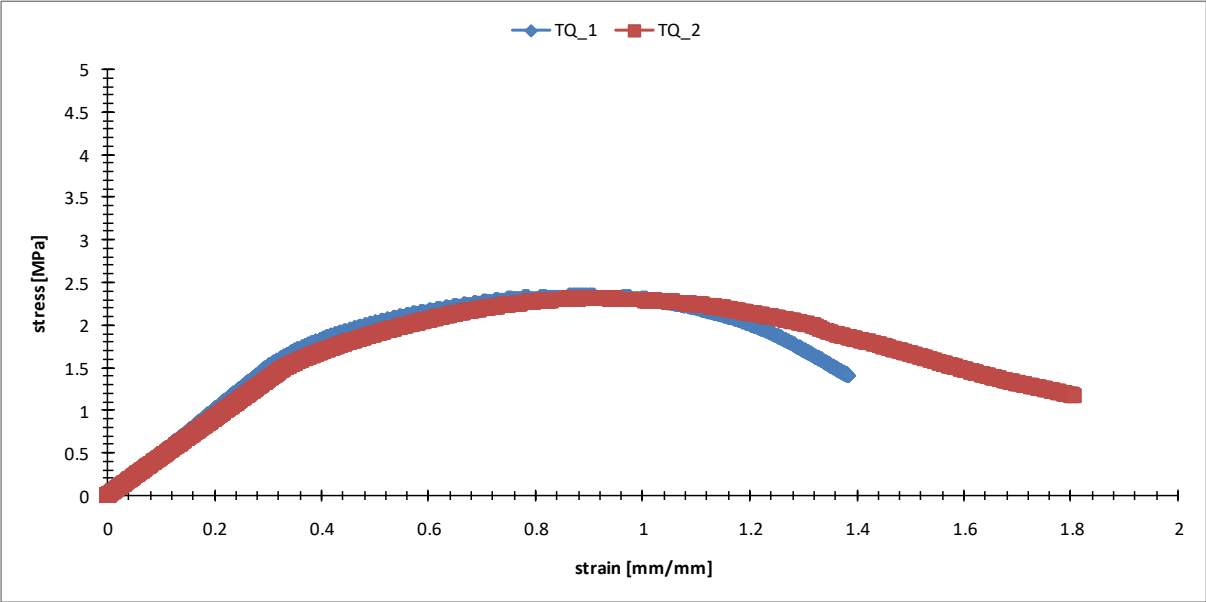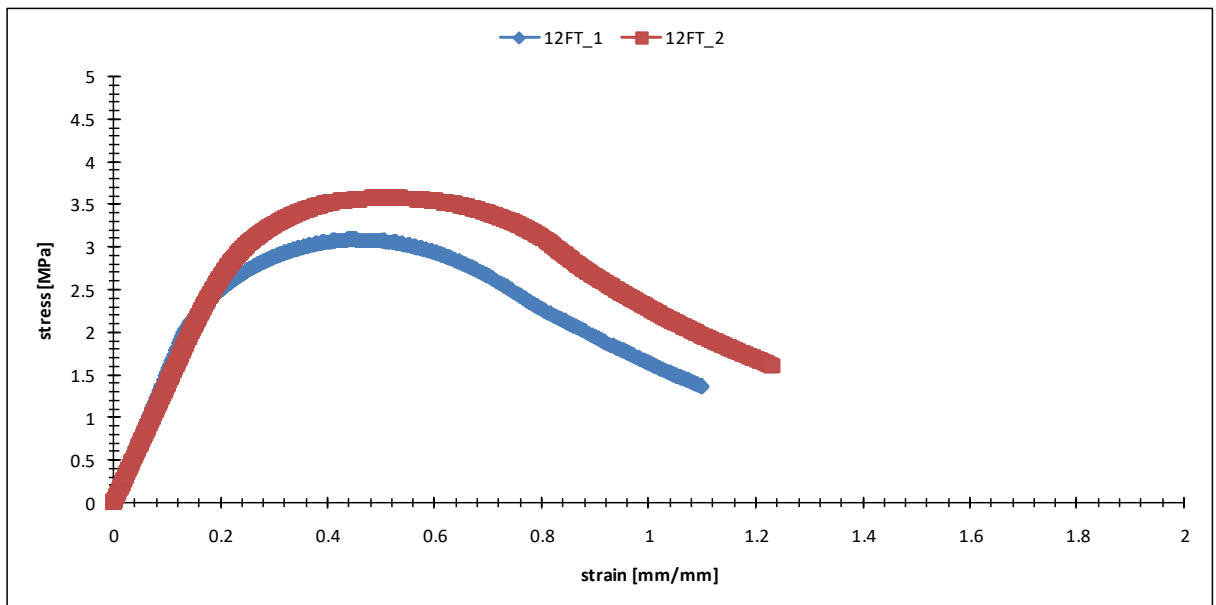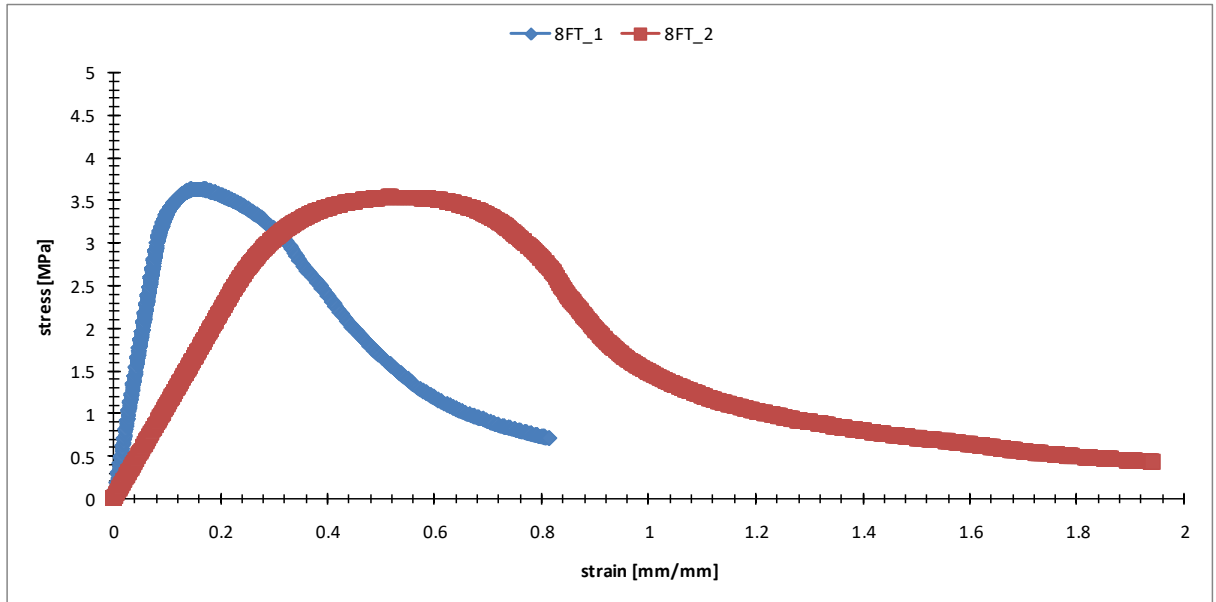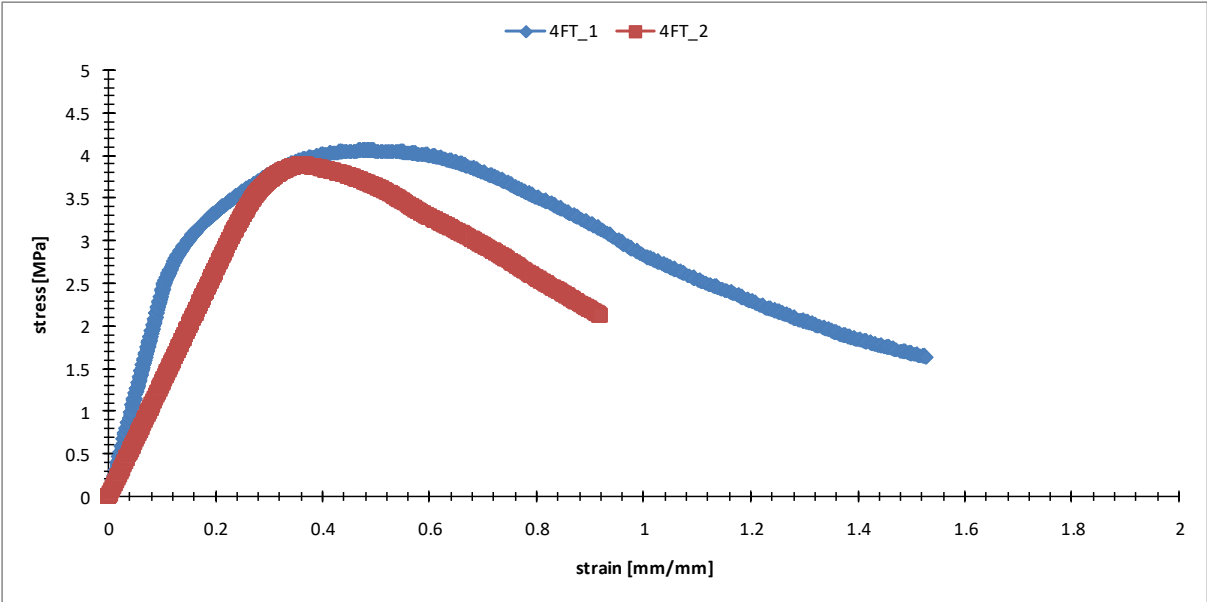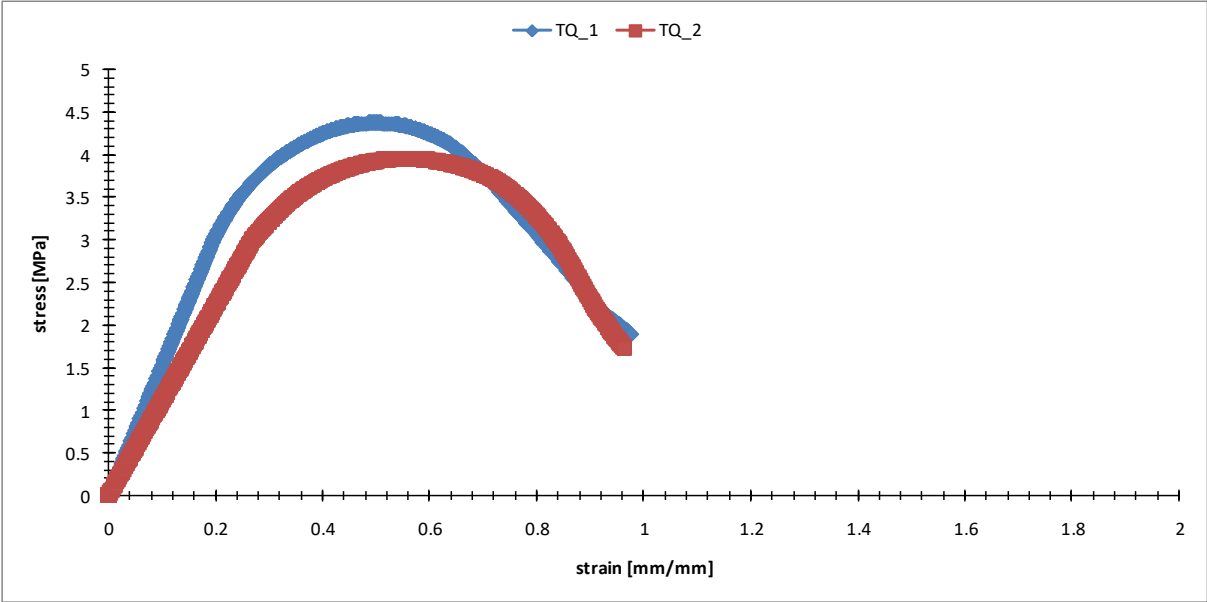# Allegato 28: Curve di compressione semplice non confinata per i CDWA stagionati 45 giorni

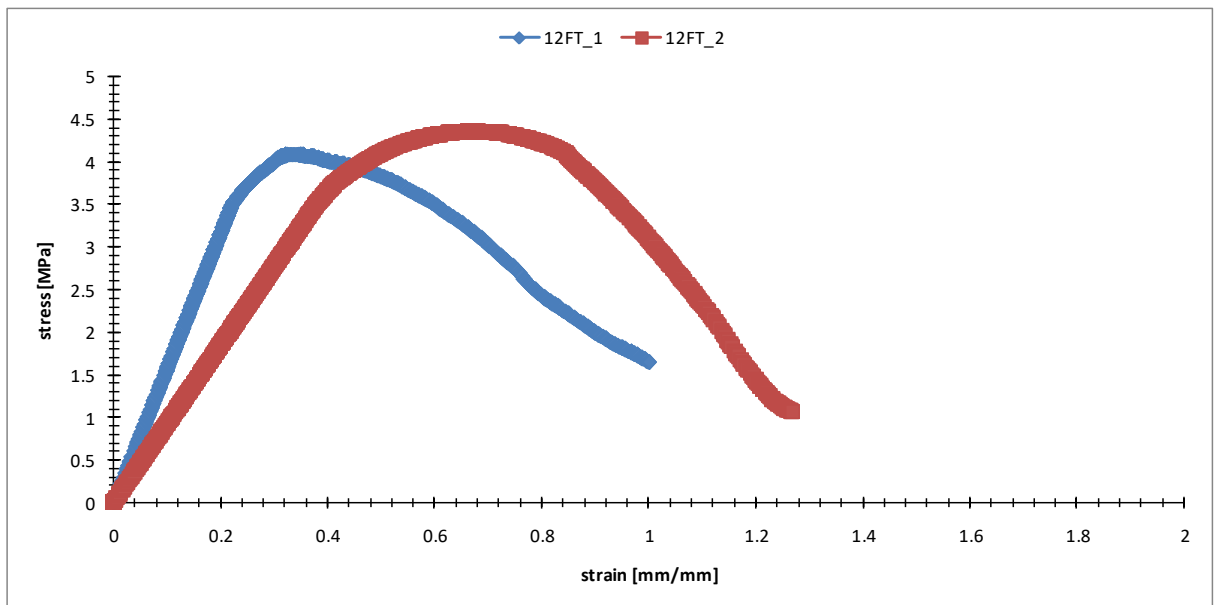## Allegato 29: Curve di compressione semplice non confinata per i CDWA stagionati 60 giorni
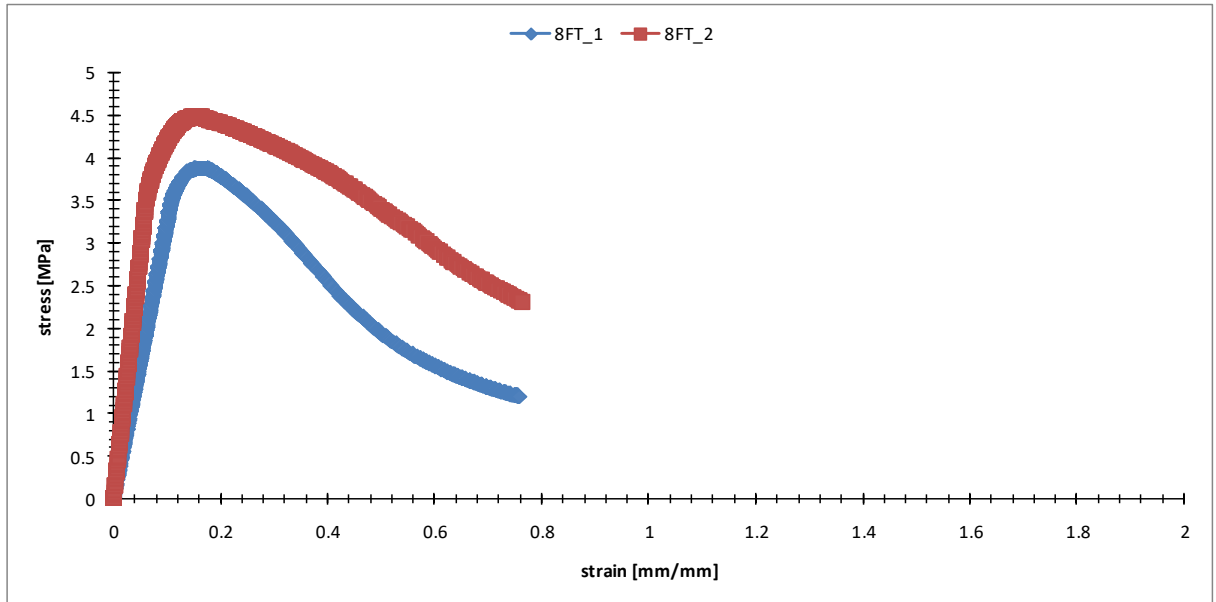
Allegato 30: Curve di compressione semplice non confinata per i NAT stagionati 7 giorni

Allegato 31: Curve di compressione semplice non confinata per i NAT stagionati 28 giorni

Allegato 32: Scheda tecnica soda caustica

CLASSIFICAZIONI PRODOTTO

N° CAS: 1310-73-2
N° CE: 215-185-5
N° Indice: 011-002-00-6

CARATTERISTICHE CHIMICO-FISICHE

Formula Chimica: NaOH
Peso Molecolare: 56,11
Nichel (Valore medio):   < 2 ppm
Ferro: < 15 ppm
Silice: < 50 ppm
Solfato di Sodio: < 20 ppm
Cloruro di Sodio: < 150 ppm
Carbonato di Sodio: < 0,3 % p/p
Aspetto: scaglie traslucide

INFORMAZIONI DI SICUREZZA

Classe: ADR 8, 41° b)
N° ONU: 1823
Simboli: C - Corrosivo
Frasi di Rischio: R35
Consigli di Prudenza: S1/2-26-37/39-45

GARANZIE DI VENDITA PRODOTTO

Titolo   > 98 % p/p

CHIMICA STROLA s.a.s. - Torino