

Rapport Sporbart Miljøtau

Bruddstyrke og gnag

Selstad vs. Markedsledende
Import tau.

04.05.2022



SELSTAD



→ selstad.no

Hovedfunn

- **Sporbart Miljøtau har 5% svakere bruddstyrke i strekktester sammenlignet med Import tau. Begge tauene er derimot mer enn 15% sterkere enn ISO-kravet.**
- **Sporbart Miljøtau har mer enn dobbelt så god slitasjemotstand mot gnag sammenlignet med Import tau.**



Strekktester

- Strekktester gjennomført ved Selstad sine egne testfasiliteter i Måløy.
- Strekkbenken er godkjent ihht. ISO standard.
- 3 gjennomførte tester av hver produsent.
- Import tau har 1% tykkere diameter enn Sporbart Miljøtau.
- Import tau har 5% høyere bruddstyrke enn Sporbart Miljøtau.
- Begge tauene har mer enn 15% høyere bruddstyrke enn ISO-kravet.

Tekst	Krav	Selstad 1	Selstad 2	Selstad 3	Importtau 1	Importtau 2	Importtau 3
Diameter (mm)	18	20,35	20,35	20,3	20,5	20,5	20,5
Linear density (ktex)	147	165	165	165	170	170	170
Breaking strength (kn)	54,5	62,02	62,02	64,84	66,25	64,8	67,17
Average Breaking strength (kn)	-		62,96			66,07	
Difference Breaking strength (%)	-		-5%			+5%	



Strektest rapporter Sporbart Miljøtau

SELSTAD
Test report – fibre ropes

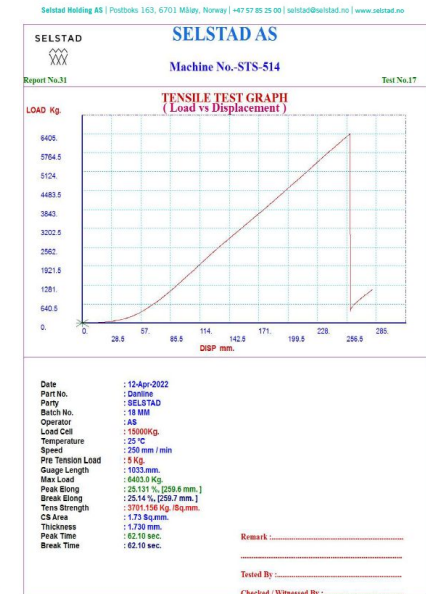
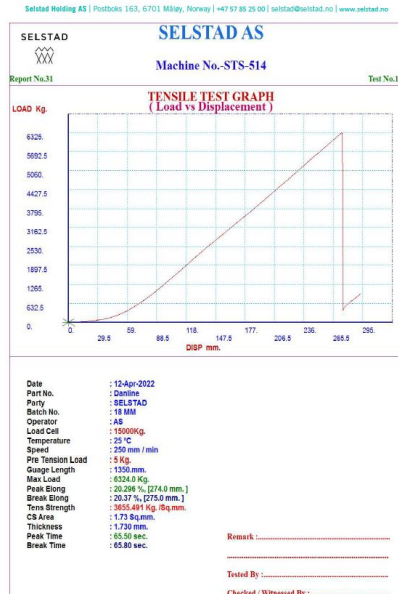
Manufacturer		Selstad AS		Date		12/4/22	
ORDER INFORMATION							
Purchaser	*						
Purchaser order number	*						
Production order	*						
ROPE INFORMATION							
Length and Termination (type and design)	*	1,5m eye splices					
Material type and grade score	*	Mixed Polyolefin					
Manufacturer's Product name and code	*	Danline 3-Slitt, 531018					
Rope construction	*	3-Slitt, Hawser					
Reference number (RN)	*	18					
Reference product standard	*	ISO 10572:2009					
TEST RESULTS ISO 2307:2019							
Diameter (mm) (avg.)	Specification	Actual					
Linear density (kts)	147	165					
Lay length or pitch							
Elongation (%) at 50 % Tension	*	Minimum breaking strength					
Break strength (kN)	54,5	Actual [kN]	Break Location	Free Length [m]			
Termination Type*		62,02	Eye splice	100			
Test conditions	Nb of bedding in cycles* 1						
Notes: (documents provided with this rope) *	Termination Type* 1						
Test report 31-14	Test speed (mm/min) 250						
	Capstan/Dia diameter (mm)* 15						
* as applicable	Termination of test piece should only be mentioned if it is a different design than that of the rope supplied.						
Date	14/4/2022	Date					
Signature		Signature					
Quality control supervisor		Independent inspector					

SELSTAD
Test report – fibre ropes

Manufacturer		Selstad AS		Date		12/4/22	
ORDER INFORMATION							
Purchaser	*						
Purchaser order number	*						
Production order	*						
ROPE INFORMATION							
Length and Termination (type and design)	*	1,5m eye splices					
Material type and grade score	*	Mixed Polyolefin					
Manufacturer's Product name and code	*	Danline 3-Slitt, 531018					
Rope construction	*	3-Slitt, Hawser					
Reference number (RN)	*	18					
Reference product standard	*	ISO 10572:2009					
TEST RESULTS ISO 2307:2019							
Diameter (mm) (avg.)	Specification	Actual					
Linear density (kts)	147	165					
Lay length or pitch							
Elongation (%) at 50 % Tension	*	Minimum breaking strength					
Break strength (kN)	54,5	Actual [kN]	Break Location	Free Length [m]			
Termination Type*		62,02	Eye splice	100			
Test conditions	Nb of bedding in cycles* 1						
Notes: (documents provided with this rope) *	Termination Type* 1						
Test report 31-15	Test speed (mm/min) 250						
	Capstan/Dia diameter (mm)* 15						
* as applicable	Termination of test piece should only be mentioned if it is a different design than that of the rope supplied.						
Date	14/4/2022	Date					
Signature		Signature					
Quality control supervisor		Independent inspector					

SELSTAD
Test report – fibre ropes

Manufacturer		Selstad AS		Date		12/4/22	
ORDER INFORMATION							
Purchaser	*						
Purchaser order number	*						
Production order	*						
ROPE INFORMATION							
Length and Termination (type and design)	*	1,5m eye splices					
Material type and grade score	*	Mixed Polyolefin					
Manufacturer's Product name and code	*	Danline 3-Slitt, 531018					
Rope construction	*	3-Slitt, Hawser					
Reference number (RN)	*	18					
Reference product standard	*	ISO 10572:2009					
TEST RESULTS ISO 2307:2019							
Diameter (mm) (avg.)	Specification	Actual					
Linear density (kts)	147	165					
Lay length or pitch							
Elongation (%) at 50 % Tension	*	Minimum breaking strength					
Break strength (kN)	54,5	Actual [kN]	Break Location	Free Length [m]			
Termination Type*		61,84	Eye splice	100			
Test conditions	Nb of bedding in cycles* 1						
Notes: (documents provided with this rope) *	Termination Type* 1						
Test report 31-17	Test speed (mm/min) 250						
	Capstan/Dia diameter (mm)* 15						
* as applicable	Termination of test piece should only be mentioned if it is a different design than that of the rope supplied.						
Date	14/4/2022	Date					
Signature		Signature					
Quality control supervisor		Independent inspector					



Strekktest rapporter Import/India tau

SELSTAD
Test report – fibre ropes

Manufacturer	Marenot	Date	12/4/22
ORDER INFORMATION			
Purchaser	*		
Purchaser order number	*		
Production order	*		
ROPE INFORMATION			
Length and Termination (type and design)	1,5m eye splices		
Material type and grade cover	Mixed Polyolefin		
Manufacturer's Product name and code	Daneline 3-Slitt		
Rope construction	3-Slitt, Hawser		
Reference number (RN)	18		
Reference product standard	ISO 10572:2009		
TEST RESULTS ISO 2307:2019			
Diameter (mm) (avg.)	Specification	Actual	
	18	20.5	
Linear density (ktx)	147	170	
Lay length or pitch			
Elongation (%) at 50 % Tension			
Break strength (kN) Measured/calculated Spliced/Unspliced	54.5	Minimum breaking strength	
		Actual (kN)	Spliced/Unspliced
		66.28	100
Test conditions	Nb. of bedding-in cycles* 1 Termination Type* Test speed (mm/min) 250 Capstan/Dia. diameter (mm)** 15		
Notes: (documents provided with this report)	Test report 31-11		
* if applicable. ** Termination of test piece should only be mentioned if it is a different design than that of the rope supplied.			
Date	14/04/2022	Date	
Signature		Signature	
Quality control supervisor		Independent inspector	

SELSTAD
Test report – fibre ropes

Manufacturer	Marenot	Date	12/4/22
ORDER INFORMATION			
Purchaser	*		
Purchaser order number	*		
Production order	*		
ROPE INFORMATION			
Length and Termination (type and design)	1,5m eye splices		
Material type and grade cover	Mixed Polyolefin		
Manufacturer's Product name and code	Daneline 3-Slitt		
Rope construction	3-Slitt, Hawser		
Reference number (RN)	18		
Reference product standard	ISO 10572:2009		
TEST RESULTS ISO 2307:2019			
Diameter (mm) (avg.)	Specification	Actual	
	18	20.5	
Linear density (ktx)	147	170	
Lay length or pitch			
Elongation (%) at 50 % Tension			
Break strength (kN) Measured/calculated Spliced/Unspliced	54.5	Minimum breaking strength	
		Actual (kN)	Spliced/Unspliced
		64.8	100
Test conditions	Nb. of bedding-in cycles* 1 Termination Type* Test speed (mm/min) 250 Capstan/Dia. diameter (mm)** 15		
Notes: (documents provided with this report)	Test report 31-12		
* if applicable. ** Termination of test piece should only be mentioned if it is a different design than that of the rope supplied.			
Date	14/04/2022	Date	
Signature		Signature	
Quality control supervisor		Independent inspector	

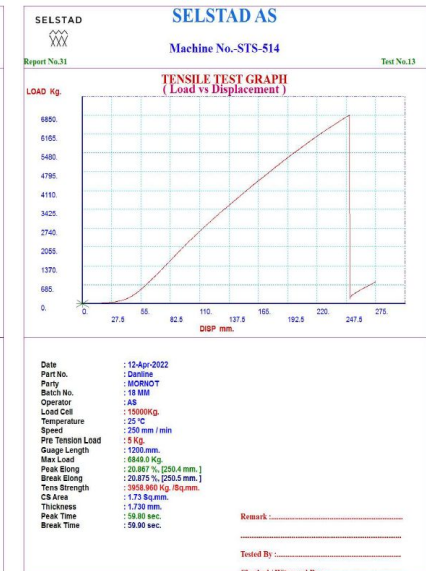
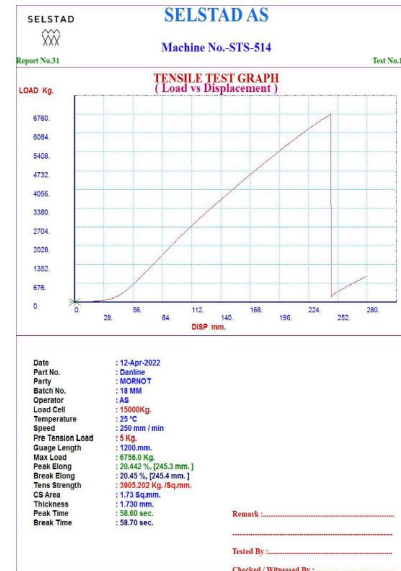
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Test report – fibre ropes

Manufacturer	Marenot	Date	12/4/22
ORDER INFORMATION			
Purchaser	*		
Purchaser order number	*		
Production order	*		
ROPE INFORMATION			
Length and Termination (type and design)	1,5m eye splices		
Material type and grade cover	Mixed Polyolefin		
Manufacturer's Product name and code	Daneline 3-Slitt		
Rope construction	3-Slitt, Hawser		
Reference number (RN)	18		
Reference product standard	ISO 10572:2009		
TEST RESULTS ISO 2307:2019			
Diameter (mm) (avg.)	Specification	Actual	
	18	20.5	
Linear density (ktx)	147	170	
Lay length or pitch			
Elongation (%) at 50 % Tension			
Break strength (kN) Measured/calculated Spliced/Unspliced	54.5	Minimum breaking strength	
		Actual (kN)	Spliced/Unspliced
		67.17	100
Test conditions	Nb. of bedding-in cycles* 1 Termination Type* Test speed (mm/min) 250 Capstan/Dia. diameter (mm)** 15		
Notes: (documents provided with this report)	Test report 31-13		
* if applicable. ** Termination of test piece should only be mentioned if it is a different design than that of the rope supplied.			
Date	14/04/2022	Date	
Signature		Signature	
Quality control supervisor		Independent inspector	

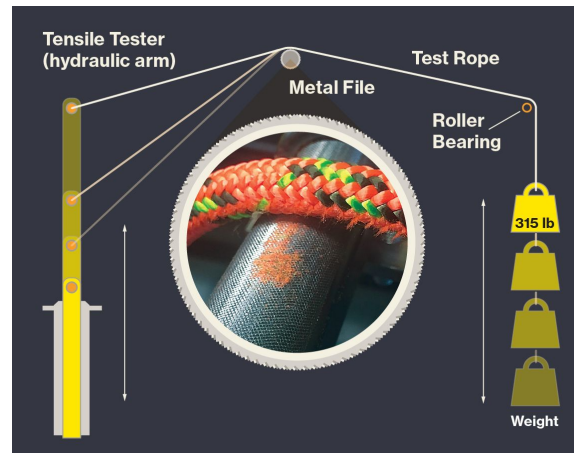
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Gnagtest

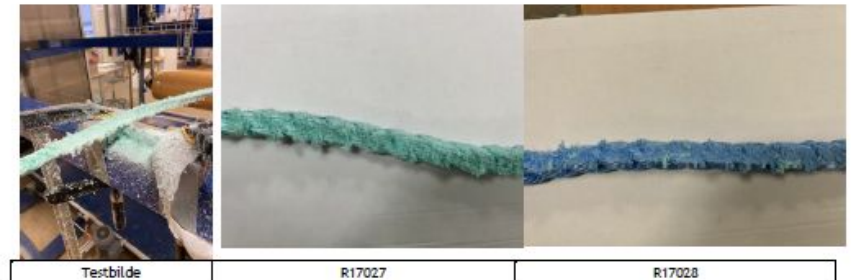


- Slitasjetest gjennomført ved RISS Testlab i Sykkylven – En uavhengig aktør.
- Metoden er lik som Sterling Rope benytter til klatretau – Se illustrasjon over.
- Endring i diameter er vanskelig å måle nøyaktig, men endring i vekt gir et godt anslag.
- Funnene tilsier at Sporbart Miljøtau har mer enn dobbel så god slitasjemotstand som India-tauet, noe som betyr under halvparten av mikroplast-utslipp i havet.

RISS TESTLAB AS	Side : 1 av 1
	Revisjon nr. : 4
	Godkjent av : BV
Prøverapport Testing slitasje av tau	

Oppdragsgiver SELSTAD AS Moldøen Box 163 6700 MÅLØY	Produkt Tautesting 18mm
Oppdragsgivers referanse Erik	R.nr. R17027,28
Dato 08.04.2022	Dato mottatt prøvesjikt 31.03.2022
Test fullført dato 08.04.2022	Revisjon nr./Revidert dato 0/

Tau vart dratt over ei fin fil 900 sykluser og deretter vart endring i diameter målt. Tauga vart veid før og etter test. Lengde på slitt område er 500 mm. Vekta er på denne lengda. Fila vart børsta for kvar 100 sykluser.



Ref.nr	Navn	Endring dia (mm)	Endring dia (%)	Endring Vekt (g)	Endring Vekt (%)	Kommentar
17027	Danline 3-slått Mørenot India, 18 mm	1,25	6,9	3,14	4,1	
17028	Danline 3-slått Selstad sporbart miljøtau 18 mm	1,16	6,4	1,36	1,8	

Bård Vestre

Bård Vestre
Daglig leder

Konklusjon

- Sporbart Miljøtau er utviklet for å være best på slitasje og gnag, det skal vare lengst mulig og avgi minst mulig mikroplast i havet.
- Om Oppdretter/bruker ønsker sterkere bruddstyrke på Sporbart Miljøtau, så vil det dessverre gå utover gnagmotstanden.
- På generell basis anbefaler vi ikke å benytte Danline som løfteredskap, da det ikke er godkjent for det.
- Selstad er mer enn villig til å gjøre diverse tilpasninger i produksjonen slik at Oppdretter/bruker forblir fornøyd med produktet.

