

Form F - Prototype Test Checklist and Report

Manufacturer			
Product design designation			
Material			
Construction			
Size number		Linear density	
Independent Inspector		Company	

Documentation

Independent Inspector should review reports for rope to assure the rope tested is that produced for prototype testing.	
Acceptable?	

Test Machine

Test facility		Date	
Independent Inspector should review test machine calibration certificate.			
Calibrating agency		Date of calibration	
Independent Inspector should examine test machine and test arrangements to assure they are adequate for intended tests.			
Acceptable?			
Machine designation		Load capacity	
Bed length		Stroke	
Pin or spool diameter			
Remarks			

Reference Load

The reference load to be used during testing of the particular rope size should be calculated by the method given in section 5.4.1.	
Reference load	

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New Dry Breaking Strength (NDBS)

Number of specimens tested		Dates tested		
Description of test procedure				
Air temperature		Load rate		
Test number	1	2		
Break load				Average NDBS
Location of break				
Observations and remarks				

New Wet Breaking Strength (NWBS)

Number of specimens tested						
Dates tested						
How were specimens conditioned?						
Water temperature						
Description of test procedure						
Load rate						
Test number	1	2	3	4	5	
Break load						Average NWBS
Location of break						
Observations and remarks						

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Cyclic Load Testing

Number of specimens tested		Dates tested		
How were specimens conditioned?				
Description of test procedure				
Initial loading rate		Initial cyclic period		
Water temperature		Water application rate		
Test number				

	<i>Cycles at load</i>	<i>Equivalent preceding cycles</i>	<i>Equivalent total load cycles</i>	<i>Cycles at load</i>	<i>Equivalent preceding cycles</i>	<i>Equivalent total load cycles</i>
50% load level						
60% load level		+251			+251	
70% load level		+215			+215	
80% load level		+113			+113	
Equivalent Total Cycles to Failure (enter only value at highest load)						
Residual Strength (if loaded to break at 80%)						
Thousand Cycle Load Level (TCLL)						
Average TCLL				% (of NWBS)		
				(absolute value)		
Observations and remarks						

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Dry Elongation Measurements and Extension Calculations

	Size 6		Size 15		Size _____	
Test number	1	2	1	2	1	2
Original Reference Length (before cycling)						
Immediate Reference Length (before tenth cycle)						

On tenth cycle:

Gauge length at 10% load						
Gauge length at 20% load						
Gauge length at 30% load						
Gauge length at 40% load						
Gauge length at 50% load						
Gauge length at break						

Averages:

Overall Extension at Reference Load			
Overall Extension at 10% load			
Overall Extension at 20% load			
Overall Extension at 30% load			
Overall Extension at 40% load			
Overall Extension at 50% load			
Overall Extension at Break			

Averages:

Immediate Extension at 10% load			
Immediate Extension at 20% load			
Immediate Extension at 30% load			
Immediate Extension at 40% load			
Immediate Extension at 50% load			
Immediate Extension at Break			

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Wet Elongation Measurements and Extension Calculations

Test number	Size 6 break tests					Size 6 TCLL tests	
	1	2	3	4	5	1	2
Original Reference Length (before cycling)							
Immediate Reference Length (before tenth cycle)							

On tenth cycle:

Gauge Length at 10% load							
Gauge Length at 20% load							
Gauge Length at 30% load							
Gauge Length at 40% load							
Gauge Length at 50% load							
Gauge length at break							

Averages:

Overall Extension at Reference Load	
Overall Extension at 10% load	
Overall Extension at 20% load	
Overall Extension at 30% load	
Overall Extension at 40% load	
Overall Extension at 50% load	
Overall Extension at Break	

Averages:

Immediate Extension at 10% load	
Immediate Extension at 20% load	
Immediate Extension at 30% load	
Immediate Extension at 40% load	
Immediate Extension at 50% load	
Immediate Extension at Break	

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Wet Elongation Measurements and Extension Calculations

	Size 15		Size _____	
Test number	1	2	1	2
Original Reference Length (before cycling)				
Immediate Reference Length (before tenth cycle)				

On tenth cycle:

Gauge Length at 10% load				
Gauge Length at 20% load				
Gauge Length at 30% load				
Gauge Length at 40% load				
Gauge Length at 50% load				
Gauge length at break				

Averages:

Overall Extension at Reference Load		
Overall Extension at 10% load		
Overall Extension at 20% load		
Overall Extension at 30% load		
Overall Extension at 40% load		
Overall Extension at 50% load		
Overall Extension at Break		

Averages:

Immediate Extension at 10% load		
Immediate Extension at 20% load		
Immediate Extension at 30% load		
Immediate Extension at 40% load		
Immediate Extension at 50% load		
Immediate Extension at Break		