

WIRE, YARN & THREAD GRIPS



SPECIFICATION
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INTERNET
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www.chatillon.com
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TG11: Vice Action Grip for Wire, Yarns & Threads

Description

Vice action wire grip with renewable aluminium facing disks, which may be replaced with leather or hard rubber disks for delicate fibres. Test method is similar to that described in BS4545:1970 (mechanical testing of steel wire)

Specification

Maximum Capacity	2 kN	450 lbf
Minimum Load Cell	20 N	4.5 lbf
Maximum Sample Diameter	2 mm	0.1 in
Eye End Diameter	15.85 mm	0.62 in
Weight Each	0.15 Kg	0.3 lb
Length Each	80 mm	3.1 in
Temperature Limits	Ambient	

Applications (TG11 & TG12)

Tensile testing of soft wires, cords and fibre, etc. By straining a sample, generally to break, and recording the relationship between force and extension, for the purpose of determining one or more of the following mechanical properties:

Elongation	Maximum Force
Percentage elongation	Stress
Extension	Tensile Strength
Percentage yield point extension	Yield Stress
Percentage reduction of area	Proof Stress



TG12: 2kN Bollard Grip for Wire, Yarns & Threads

Description

Bollard grip for wire, yarns and threads. The specimen is wrapped around the bollard and the free end clamped firmly in place. Grip stresses in the specimen are distributed in the material in contact with the bollard circumference.

Test method is similar to that described in BS4545:1970 (mechanical testing of steel wire)

Specification

Maximum Capacity	2 kN	450 lbf
Minimum Load Cell	20 N	4.5 lbf
Bollard Diameter	32 mm	1.3 in
Maximum Sample Diameter	5 mm	0.2 in
Eye End Diameter	15.85 mm	0.62 in
Weight Each	0.25 Kg	0.6 lb
Length Each	83 mm	3.3 in
Temperature Limits	Ambient	





TG23: 20kN Double Bollard Grip for Wire, Yarns & Threads

Description

DoubleBollard grip for wire, yarns and threads. The sample is secured in a clamp and run around the two bollards. Grip stresses in the specimen are distributed uniformly around the bollard circumferences. Test method is similar to that described in BS4545:1970 (mechanical testing of steel wire)

Specification

Maximum Capacity	20 kN	4496 lbf
Minimum Load Cell	100 N	22.5 lbf
Bollard Diameter	38 mm	1.5 in
Maximum Sample Diameter	6 mm	0.24 in
Eye End Diameter	15.85 mm	0.62 in
Weight Each	1.1 Kg	2.4 lb
Length Each	135 mm	5.3 in
Temperature Limits	Ambient	

Applications

Tensile testing of rope, flexible wire, cord, etc by straining a sample, generally to break, and recording the relationship between force and extension to determine one or more of the following mechanical properties:

Elongation	Stress
Percentage Elongation	Tensile Strength
Extension	Yield Strength
Percentage yield point extension	Yield Stress
Percentage reduction of area	Proof Stress
Maximum force	Youngs Modulus

TG66: Split Bollard, Locking Ratchet Tensile Grip

Description

Split Bollard, locking ratchet tensile grip for Tensile testing of safety harness, seat belt webbing and similar materials until break

Specification

Maximum Capacity	30 kN	6744.3 lbf
Minimum Load Cell	500 N	112.0 lbf
Maximum Sample Width	60 mm	2.4 in
Maximum Sample Thickness	5 mm	0.2 in
Eye End Diameter	31.7 mm	1.25 in
Weight Each	2.5 Kg	5.5 lb
Length Each	125 mm	5.0 in
Temperature Limits	Ambient	

Applications

Tensile testing of safety harness, seat belt webbing and similar materials until break, for the purpose of determining one or more of the following mechanical properties:

Elongation	Maximum Force
Percentage elongation	Stress
Extension	Tensile Strength
Percentage reduction of area	



TG65: Double Bollard Tensile Grip

Description

Double bollard tensile grip

Specification

Maximum Capacity	30 kN	6744.3 lbf
Minimum Load Cell	500 N	112.0 lbf
Maximum Sample Width	60 mm	2.4 in
Maximum Sample Thickness	5 mm	0.2 in
Eye End Diameter	31.7 mm	1.25 in
Weight Each	2.5 Kg	5.5 lb
Length Each	150 mm	6.0 in
Bollard Diameter	12 mm	0.5 in
Temperature Limits	Ambient	

Applications

Tensile testing of safety harness, seat belt webbing and similar materials until break, for the purpose of determining one or more of the following mechanical properties:

Elongation	Maximum Force
Percentage elongation	Stress
Extension	Tensile Strength
Percentage reduction of area	



TG32: Lightweight, Spring loaded Clamp Grip

Description

Lightweight, Spring loaded, rubber faced clamp grips for very light loads (mechanical testing of steel wire)

Specification

Maximum Capacity	5 N	1.1 lbf
Minimum Load Cell	5 N	1.1 lbf
Maximum Sample Width	5 mm	0.2 in
Maximum Sample Thickness	1 mm	0.04 in
Eye End Diameter	15.85 mm	0.62 in
Weight Each	0.1 Kg	0.2 lb
Length Each	100 mm	4.0 in
Temperature Limits	Ambient	

Applications

Tensile testing of fine wires, threads and fibres by straining a sample, generally to break, and recording the relationship between force and extension to determine one or more of the following mechanical properties:

Elongation	Stress
Percentage Elongation	Tensile Strength
Extension	Yield Strength
Percentage yield point extension	Yield Stress
Percentage reduction of area	Proof Stress
Maximum force	Youngs Modulus

ORDERING INFORMATION

Model	Part No.	Description
TG11	01/1608	Vice Action Wire Grip 2kN Max
TG12	01/1829	Single Bollard Wire Grip 2kN Max
TG23	GPS/0014/00	Double Bollard Wire Grip 20kN Max
TG32	01/0887	Lightweight, Spring loaded, Clamp Grips
TG65	01/1139	Double Bollard Tensile Grip
TG66	01/2403	Split Bollard, Locking Ratchet Tensile Grip



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