

Chemical Composition

Element	C	Si	Mn	P	S	Cr	Mo	Cu	Ni	N
Weight %	0.02 Max	1.0 Max	2.0 Max	0.04 Max	0.005 Max	19.50 - 20.50	6.0 - 6.50	0.50 - 1.00	17.50 - 18.50	0.18 - 0.22

Wireline Diameter	Inches	0.092	0.108	0.125	0.140	0.160
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Mechanical Properties

Wireline Diameter	Millimetres	2.34	2.74	3.18	3.56	4.06
	Inches	0.092	0.108	0.125	0.140	0.160
Minimum Breaking Load	lbf	1600	2100	2600	3100	3900
Typical Breaking Load	lbf	1690	2255	2795	3320	4230
Minimum UTS	N/mm ²	1660	1590	1460	1390	1350
Typical UTS	N/mm ²	1750	1700	1570	1488	1450
Yield Strength	(0.2% P.S.)	80-90% UTS	80-90% UTS	80-90% UTS	80-90% UTS	80-90% UTS
Elastic Limit		22 - 28% UTS	22 - 28% UTS	22 - 28% UTS	22 - 28% UTS	22 - 28% UTS
Modulus of Elasticity	N/mm ²	16 X 10 ⁴	16 X 10 ⁴	16 X 10 ⁴	16 X 10 ⁴	16 X 10 ⁴
Recommended Safe Load		60% UTS	60% UTS	60% UTS	60% UTS	60% UTS
Sheave Diameter	Inches	11	13	15	17	20
Minimum Wraps		8	8	8	8	8

Physical Properties

Wireline Diameter	Millimetres	2.34	2.74	3.18	3.56	4.06
	Inches	0.092	0.108	0.125	0.140	0.160
Density	g/cm ³	8.1	8.1	8.1	8.1	8.1
Coefficient of Liner Expansion	Mm/m/°C	0.17	0.17	0.17	0.17	0.17
Wireline Weight	lb/1000ft	23.29	32.1	43.0	53.9	69.1
Minimum Wireline Stretch	Inch/100ft/100lb	0.79	0.58	0.43	0.34	0.26
Thermal Conductivity	W/m.K	13.5	13.5	13.5	13.5	13.5
Specific Heat	J/kg.K	500	500	500	500	500
Resistivity	μOhm Cm	85	85	85	85	85
Magnetic Permeability		1.01	1.01	1.01	1.01	1.01

Corrosion Resistance

H ₂ S + CO ₂	Excellent in all concentrations
Chloride (Brine, salt etc.)	Excellent
H ₂ S + CO ₂ + Chloride	Good

100% Non-destructive Tested

100% Weld Free

Every Wireline is individually numbered providing full traceability

Individually crated to protect during shipment.

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