

Chemical Composition

Element	C	Si	Mn	P	S	Cr	Mo	Cu	Ni	N
Weight %	0.9 Max	0.15 - 0.35	0.4 - 0.7	0.02 Max	0.025 Max	0.10 - Max	0.02 Max	0.10 Max	0.10 Max	0.007 Max

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	2050	2730	3665	4600	6005
Typical Breaking Load	lbf	2125	2945	3845	4825	6180
Minimum UTS	N/mm ²	2120	2060	2060	2060	2060
Typical UTS	N/mm ²	2200	2220	2160	2160	2120
Yield Strength	(0.2% P.S.)	80% UTS	80% UTS	80% UTS	80% UTS	80% UTS
Elastic Limit		25% UTS	25% UTS	25% UTS	25% UTS	25% UTS
Modulus of Elasticity	N/mm ²	18 X 10 ⁴	18 X 10 ⁴	18 X 10 ⁴	18 X 10 ⁴	18 X 10 ⁴
Recommended Safe Load		60% UTS	60% UTS	60% UTS	60% UTS	60% UTS
Sheave Diameter	Inches	11	13	15	17	20
Torsions	"(Min 8" sample)"	23	19	19	14	11

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	7.87	7.87	7.87	7.87	7.87
Coefficient of Liner Expansion	Mm/m/°C	0.11	0.11	0.11	0.11	0.11
Wireline Weight	lb/1000ft	22.66	31.23	41.84	52.41	68.45
Minimum Wireline Stretch	Inch/100ft/100lb	0.70	0.51	0.38	0.307	0.236
Thermal Conductivity	W/m.K	50	50	50	50	50
Specific Heat	J/kg.K	532	532	532	532	532
Resistivity	μOhm Cm	17	17	17	17	17
Magnetic Permeability		2420	2420	2420	2420	2420

Corrosion Resistance

H ₂ S + CO ₂	Extremely poor, may not be used in any concentrations even with inhibitors.
Chloride (Brine, salt etc.)	Good - wire must be cleaned after use to prevent pitting
H ₂ S + CO ₂ + Chloride	Extremely poor due to the presence of H ₂ S + CO ₂ , not to be used in any concentrations

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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