

316 Stainless Wireline

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Chemical Composition

Element	C	Si	Mn	P	S	Cr	Mo	Cu	Ni	N
Weight %	0.07 Max	1.0 Max	2.0 Max	0.045 Max	0.030 Max	16.50 - 18.50	2.00 - 2.50		10.50 - 13.50	

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	1400	1920	2500	3100	4000
Typical Breaking Load	lbf	1520	2000	2670	3170	4100
Minimum UTS	N/mm ²	1450	1450	1400	1400	1370
Typical UTS	N/mm ²	1570	1510	1500	1420	1405
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	15.3 X 10 ⁴	15.3 X 10 ⁴	15.3 X 10 ⁴	15.3 X 10 ⁴	15.3 X 10 ⁴
Recommended Safe Load		75% UTS	75% UTS	75% UTS	75% UTS	75% 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	7.95	7.95	7.95	7.95	7.95
Coefficient of Liner Expansion	Mm/m/°C	0.155	0.155	0.155	0.155	0.155
Wireline Weight	lb/1000ft	22.9	31.56	42.28	53.04	68.45
Minimum Wireline Stretch	Inch/100ft/100lb	0.83	0.60	0.45	0.36	0.22
Thermal Conductivity	W/m.K	14.47	14.47	14.47	14.47	14.47
Specific Heat	J/kg.K	491	491	491	491	491
Resistivity	μOhm Cm	74	74	74	74	74
Magnetic Permeability		1.003	1.003	1.003	1.003	1.003

Corrosion Resistance

H ₂ S + CO ₂	May be used in concentrations of up to 30% of CO ₂ with no H ₂ S present
Chloride (Brine, salt etc.)	May be used in concentrations of up to 2-3%
H ₂ S + CO ₂ + Chloride	May be used in concentrations of CO ₂ up to 30% providing Chlorides do not exceed 2-3% and no H ₂ S

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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