

# SUPA 40 (2205) Duplex Stainless Wireline

www.foxwire.co.uk

## Chemical Composition

Element	C	Si	Mn	P	S	Cr	Mo	Cu	Ni	N
Weight %	0.030 Max	1.00 Max	2.0 Max	0.035 Max	0.015 Max	21.0 - 23.0	2.50 - 3.50		4.50 - 6.50	0.10 - 0.22

Wireline Diameter	Inches	0.092	0.108	0.125	0.140	0.160
-------------------	--------	-------	-------	-------	-------	-------

## 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	1650	2150	2800	3400	4230
Typical Breaking Load	lbf	1670	2200	2900	3600	4410
Minimum UTS	N/mm <sup>2</sup>	1700	1620	1570	1520	1450
Typical UTS	N/mm <sup>2</sup>	1730	1660	1630	1610	1510
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 <sup>2</sup>	16 X 10 <sup>4</sup>	16 X 10 <sup>4</sup>	16 X 10 <sup>4</sup>	16 X 10 <sup>4</sup>	16 X 10 <sup>4</sup>
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 <sup>3</sup>	7.8	7.8	7.8	7.8	7.8
Coefficient of Liner Expansion	Mm/m/°C	0.13	0.13	0.13	0.13	0.13
Wireline Weight	lb/1000ft	22.5	30.9	41.5	52.0	68.0
Minimum Wireline Stretch	Inch/100ft/100lb	0.78	0.57	0.42	0.34	0.26
Thermal Conductivity	W/m.K	14.0	14.0	14.0	14.0	14.0
Specific Heat	J/kg.K	470	470	470	470	470
Resistivity	μOhm Cm	85	85	85	85	85
Magnetic Permeability		>25	>25	>25	>25	>25

## Corrosion Resistance

H <sub>2</sub> S + CO <sub>2</sub>	Very good in concentrations of CO <sub>2</sub> up to 35% with no H <sub>2</sub> S present
Chloride (Brine, salt etc.)	Excellent. May be used in concentrations of up to 30%
H <sub>2</sub> S + CO <sub>2</sub> + Chloride	Very good in high Chloride and CO <sub>2</sub> concentrations with no H <sub>2</sub> S present

100% Non-destructive Tested

100% Weld Free

Every Wireline is individually numbered providing full traceability

Individually crated to protect during shipment.

Fox Wire Limited. Sheepphouse Wood, Stocksbridge, Sheffield S36 4GS  
Tel: +44 (0) 114 288 4207 Fax: +44 (0) 114 288 4874

