

WELL SERVICE PRODUCTS
WIRELINES & WELL SERVICE STRANDS



Fox Wire Limited
Sheephouse Wood, Stocksbridge, Sheffield, S36 4GS

E-mail: sales@foxwire.co.uk
www.foxwire.co.uk



Wirelines

General Information

- All wirelines manufactured meet or exceed the requirements of API 9A
- All wirelines supplied in continuous lengths on painted steel reels
- Diameter tolerance +/- 0.001 inch (0.0254mm)
- All wirelines subjected to 100% non-destructive testing during manufacture
- Other diameters and wire grades can be supplied upon request
- Lengths manufactured from 15,000 to 30,000ft - longer lengths on request
- **Strategic stock held in the UK and selected areas of the world**
- Packed for shipment in individual crates
- UK's only manufacturer of carbon wirelines by the original lead patented method
- Carbon wirelines Texaco S1000 inhibited



Minimum Breaking Loads (MBL)

Nominal Diameter		Plain Carbon		UHT Carbon		316 St. St		Supa 75®		Rec. Minimum Pulley diameter	
Inches	mm	lbf	kN	lbf	kN	lbf	kN	lbf	kN	Inches	mm
0.082	2.08	1239	5.51	1610	7.2	1100	4.9	1240	5.5	10	254
0.092	2.34	1547	6.88	2050	9.1	1400	6.2	1550	6.9	11	279
0.108	2.74	2109	9.40	2730	12.1	1920	8.5	2100	9.0	13	330
0.125	3.18	2837	12.62	3665	16.3	2500	11.1	2700	11.4	15	381

General comparison of grades: Corrosion Protection

Nominal Diameter	H ₂ S + CO ₂	Corrosive elements Chloride, Brine, Salt etc	Corrosive elements Chloride, H ₂ S + CO ₂
Plain Carbon	Very poor, may be used in low H ₂ S (2-3ppm) and CO ₂ (2-3%) with inhibitors	Good - Wire must be cleaned after use to prevent pitting	Extremely poor due to presence of H ₂ S + CO ₂
UHT Carbon	Extremely poor - may not be used in any concentrations even with inhibitors	Good - Wire must be cleaned after use to prevent pitting	Extremely poor due to presence of H ₂ S + CO ₂
316 Stainless Steel	May be used in concentrations of up to 30%	May be used in concentrations of up to 2-3%	May be used in concentrations of H ₂ S and CO ₂ up to 30% providing chlorides do not exceed 2-3%
Supa 75®	Excellent all concentrations	Excellent	Very Good

Wireline Weights

Nominal Diameter		Plain Carbon		UHT Carbon		316 Stainless Steel		Supa 75®	
Inches	mm	lbs per 1000ft	kgs/100m	lbs per 1000ft	kgs/100m	lbs per 1000ft	kgs/100m	lbs per 1000ft	kgs/100m
0.082	2.08	18.15	2.70	18.15	2.70	18.15	2.70	18.46	2.75
0.092	2.34	22.66	3.37	22.66	3.37	22.90	3.41	23.29	3.47
0.108	2.74	31.23	4.65	31.23	4.65	31.56	4.70	32.10	4.78
0.125	3.18	41.84	6.23	41.84	6.23	42.28	6.29	43.00	6.40

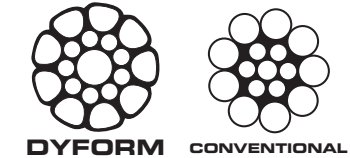
Well Service Strands

General Information

Well Service Strands available in two constructions:-

1. 1X16 - Conventional
2. 1X19 - Dyform & Dyform Complete

- Well Service Strands are manufactured in continuous lengths on specialised reels.
- Strictly controlled and recorded maximum strand diameters, within API9A tolerances.
- Lengths manufactured from 15,000ft to 30,000ft. Longer lengths on selected sizes available on request.
- **Strategic stock held within the UK and selected areas of the world.**



Diameter		Recommended Flow Tube Diameter		Approx Weight Conventional Construction		Approx Weight Dyform Construction		Recommended Minimum Pulley Diameter	
Inches	mm	Inches	mm	lbs per 1000ft	kgs/100m	lbs per 1000ft	kgs/100m	Inches	mm
3/16	4.76	0.196	4.98	71	10.6	85	12.7	12	305
7/32	5.56	0.228	5.79	96	14.3	111	16.6	14	355
1/4	6.35	0.263	6.68	126	18.8	148	22.1	16	406
5/16	7.94	0.330	8.38	196	29.2	232	34.6	20	508

Minimum Breaking Loads (MBL)

		Galvanised				316 Stainless Steel				Supa 75®			
Diameter		Conventional		Dyform		Conventional		Dyform		Conventional		Dyform	
Inches	mm	lbf	kN	lbf	kN	lbf	kN	lbf	kN	lbf	kN	lbf	kN
3/16	4.76	4960	22.1	6170	27.5	3990	17.8	4940	22.0	4320	19.2	4960	22.1
7/32	5.56	6610	29.5	8370	37.3	5400	24.1	6500	29.0	5842	26.0	6500	26.7
1/4	6.35	8640	38.5	11200	49.9	7030	31.3	8640	38.5	7600	33.9	8530	38.0
5/16	7.94	13490	60.1	17550	78.2	11000	49.0	13560	60.4	11880	52.9	13380	59.6

Note: The Dyform strand offers higher strength and smoother external periphery which reduces the possibility of pressure leakage.

General comparison of grades: Corrosion Resistance

	H ₂ S + CO ₂	Corrosive elements Chloride, Brine etc	H ₂ S + CO ₂ + Chloride
Galvanised	Very Poor	Good	Extremely Poor
316 Stainless Steel	May be used in concentrations of up to 30%	2-3%	May be used in concentrations of up to 30% providing chlorides do not exceed 2-3%
Supa 75®	Excellent all conditions	Excellent	Very Good

Additional Information

Combinations of galvanised and ungalvanised wires are available on request. Other sizes, mechanical properties and constructions are also available upon request. All breaking loads quoted are guaranteed minimum values. Actual breaking loads are approximately 6% higher than the guaranteed minimum value.