

## Carbon Steel Slicklines to API9A for Sweet Well Conditions.

Bridon IPS grade Basic Carbon Steel Slicklines recommended for use only in sweet well conditions may be used with inhibitors where levels of H<sub>2</sub>S and/or CO<sub>2</sub> are extremely low.

Supplied on steel drums-Tested and Certified to BS EN 10204 2004

Chemical Composition Range		
Element	Min	Max
C	-	0.900
Si	0.15	0.350
Mn	0.40	0.700
P	N/A	0.020
S	N/A	0.025
Cr	N/A	0.100
Mo	N/A	0.020
Cu	N/A	0.100
Ni	N/A	0.100
N	N/A	0.007

Typical Physical Properties	
Density	7.87g/cc
Modulus of Elasticity	180GPA
Magnetic Permeability	2420
Yield Strength	80% UTS
Elastic Limit	25% UTS
Specific Heat	532 j/kg.K

Mechanical Properties				
Diameter	Nom. B. Load**	Wireline Weight	Sheave Diameter	Torsions
Ins.	Lbs.	lb/1000ft	Inches	Min 8" Sample
0.092	1547	23	11	23
0.108	2109	31	13	19
0.125	2837	42	15	19
0.160	4508	68	20	11

\*\*DWS recommends a maximum safe working load of 60% Actual Breaking Load (ABL) when jarring and 70% ABL for straight pulls.

Provided that Wirelines are purchased from reputable suppliers they should arrive at the user complete with full certification. This acts as a guarantee to the purchaser that the wireline has been manufactured to a specific quality standard and exhibits the properties recorder on the Test Certification.

Unfortunately with time the combined effect of operating under high tensile, bending fatigue stresses and often in corrosive media at high temperatures causes Wireline ductility to become gradually impaired.

The availability of a Linetech Portable Wireline Tester can assist in checking the ductility this should be used as part of a full testing programme. Torsion testing is especially useful when operating API Wirelines in conditions where small amounts of H<sub>2</sub>S may exist since line failure can occur in as little as 12 hours exposure.