

GD316™ Slickline

UNS S31600 W. -Nr. 1.4401

GD316™ is an austenitic stainless steel possessing good general corrosion resistance, suitable for well conditions with medium concentrations of CO₂ (up to 30%) and low chlorides (up to 2.5%) with no H₂S present. GD316™ is an economical option for well conditions where carbon steel would be subject to corrosive attack. GD316™ slicklines are available in continuous weld free lengths up to 30,000 ft (9145 m). All GD316™ lines are 100% NDT and inspected. GD™ slicklines are shipped on steel reels. Custom lengths and diameters are available.

Chemical Compositional Range (wt. %)

	Ni	Cr	Mo	Si	N	Mn	P	S	C	PRE = %Cr + 3.3 x % Mo + 16 x %N
Min	10.5	16.0	2.0		0.04					
Max	14.5	18.0	3.0	1.0	0.06	2.0	0.045	0.010	0.06	PRE = 23 to 29

Physical Properties

Density	8.0 g / cm ³	0.287 lbs. / in ³
Thermal Expansion	8.9 x 10 ⁻⁶ (32° F to 212° F)	16.0 x 10 ⁻⁶ (0° to 100° C)
Thermal Conductivity	113 BTU in/Ft ² . h . °F (@212° F)	16.3 W/m. K (@ 100 °C)

Dia. (in.)	Dia. (mm)	Minimum Breaking Load (lbf)	Minimum Breaking Load(kN)	Nominal Wt/1000ft (lbs.)	Nominal Wt/1000m (kg)
.066	1.68	736	3.27	11.9	17.72
.072	1.83	875	3.89	14.02	20.87
.082	2.08	1,135	5.05	18.38	27.35
.092	2.34	1,430	6.36	22.89	34.07
.108	2.74	1,960	8.72	31.55	46.95
.125	3.18	2,640	11.74	42.27	62.90
.140	3.56	3,325	14.79	53.02	78.90
.150	3.81	3,800	16.90	60.86	90.57
.160	4.06	4,220	18.77	69.25	103.05

To maximize the life of your GD™ Slickline:

- Use properly sized sheaves (min. sheave diameter = 120 x wire OD) and inspect them for excessive wear
- Ensure the sheaves rotate freely
- Always use new guides in the stuffing box
- Avoid kinking the line
- Layer winding or smooth wrapping the wire onto the winch drum will result in extended life / less damage and reduced likelihood of small kinks
- Prevent the line from rubbing the side of the drum, dragging on the ground, over shafts or other equipment
- Maintain the natural curvature of the wire, maintain constant tension during winding and re-spooling operations
- Exercise extreme caution during jarring operations, check “jarred” lines for possible stretch (reduced wire diameter) or other damage
- When running the line down hole avoid sudden brake application
- Never store reels on their sides
- Maintaining a logbook for each line is recommended
- Clean the line after each use