

## GD37Mo™ Slickline

Rev. 1-FEB-18

### UNS S31277

GD37Mo™ is a super austenitic stainless steel with increased chromium, molybdenum and nitrogen content suitable for extremely sour gas and oil well conditions with CO<sub>2</sub>, H<sub>2</sub>S and Chlorides present. GD37Mo™ is characterized by excellent resistance to pitting and crevice corrosion in sour well environments, as well as resistance to both localized and general corrosion. The alloy content of GD37Mo™ resists corrosion in a wide range of chemical media, both oxidizing and reducing, including sulphuric acid, sour gas. Every GD37Mo™ line is manufactured from shaved rod stock, 100% NDT and mechanically tested and inspected. GD™ slicklines are shipped on steel reels. Custom lengths and diameters are available.

#### Chemical Compositional Range (wt. %)

	Ni	Cr	Mo	Cu	N	Mn	P	S	Si	C	PRE = %Cr + 3.3 x % Mo + 16 x %N
Min.	26.0	20.5	6.5	0.5	0.3						
Max.	28.0	23.0	8.0	1.5	0.4	3.00	0.03	0.01	0.5	0.02	PRE = 46 to 55

#### Physical Properties

Density	8.02 g/cm <sup>3</sup>	0.289 lbs./in <sup>3</sup>
Thermal Expansion	15.03 x10 <sup>-6</sup> (0 to 100 °C)	8.33 x 10 <sup>-6</sup> (0 to 200 °F)
Thermal Conductivity	0.121 W/m. Deg K (@ 100 °C)	84.13BTUin/Ft <sup>2</sup> . h . °F (@ 212 °F)

Dia. (in.)	Dia. (mm)	MINIMUM Breaking Load (lbf)	MINIMUM Breaking Load (kN)	NOMINAL Weight (lbs./1,000 ft.)	NOMINAL Weight (kg/1000 kg)
.092	2.34	1,690	7.52	23.37	34.78
.108	2.74	2,330	10.36	32.21	47.93
.125	3.18	3,150	14.01	43.15	64.21

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

Reference Document – Special Metals Publication SMC-092