

GD39Mo™ Slickline

UNS N08031

GD39Mo™ is a super austenitic stainless steel with increased chromium, molybdenum and nitrogen content suitable for extremely sour gas and oil well conditions where CO₂, H₂S and chlorides are present, GD39Mo™ has improved corrosion resistance and break strength than grades containing 6% Mo. GD39Mo™ is characterized by outstanding resistance to pitting and crevice corrosion in concentrated H₂S containing sour environments, excellent resistance to both localized and general corrosion and chloride stress corrosion. GD39Mo™ has excellent corrosion resistance to a wide range of chemical media, both oxidizing and reducing, including sulphuric acid, sour gas, seawater and salts. GD39Mo™ slicklines are manufactured from shaved rod stock and are available in continuous weld free lengths up to 30,000 ft (9145 m). Every GD39Mo™ line is 100% NDT and inspected. GD39Mo™ slicklines are shipped on steel reels. Custom lengths and diameters are available.

Chemical Compositional Range (wt. %)

	Ni	Cr	Mo	Cu	N	Mn	P	S	C	PRE = %Cr+3.3 x % Mo + 16 x %N
Min	30.0	26.0	6.0	1.0	0.15					
Max	32.0	28.0	7.0	1.4	0.25	2.00	0.02	0.01	0.015	PRE = 48.2 to 55.1

Physical Properties

Density	0.293 lbs./in ³	8.10 g/ cm ³
Thermal Expansion	7.9 x 10 ⁻⁶ (32° F to 212° F)	14.3 x 10 ⁻⁶ (0° to 100° C)
Thermal Conductivity	90.0 BTU in/Ft ² . h . °F (@212° F)	15.0 W/m. K (@ 100° C)

Dia. (in.)	Dia. (mm)	Nominal Breaking Load (lbf)	Nominal Breaking Load(kN)	Nominal Wt/1000ft (lbs.)	Nominal Wt/1000m (kg)
.092	2.34	1,680	7.47	23.37	34.78
.108	2.74	2,244	9.98	32.21	47.93
.125	3.18	3,100	13.79	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