

GD35Mo™ Slickline

Rev. 29-MAY-18

UNS N08028 W.-Nr.1.4563

GD35Mo™ is a super austenitic stainless steel suitable for well conditions with CO₂, H₂S and chlorides. GD35Mo™ is characterized by very good resistance to a variety of corrosive media including H₂S, chloride and CO₂ containing environments and exceptional resistance to phosphoric acid. GD35Mo™ has excellent resistance to pitting, crevice and intergranular corrosion and stress corrosion cracking, while exhibiting good mechanical properties. GD35Mo™ slicklines are available in continuous weld free lengths up to 30,000 ft (9145 m). All GD35Mo™ 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	Cu	N	Mn	P	S	Si	C	PRE = %Cr + 3.3 x % Mo + 16 x %N
Min	30.0	26.0	3.0	1.0	0.04						
Max	32.0	28.0	4.0	1.4	0.07	2.00	0.02	0.01	0.7	0.015	PRE = 36 to 42

Physical Properties

Density	0.287 lbs./in ³	8.0 g/ cm ³
Thermal Expansion	8.3 x 10 ⁻⁶ /°F (68 to 200 °F)	15.0 x10 ⁻⁶ /°K (0 to 100 °C)
Thermal Conductivity	83 BTU .in/Ft ² . h . °F (@ 200 °F)	12.0 W/m. °K (@ 100 °C)

Dia. (in.)	Dia. (mm)	MINIMUM Breaking Load (lbf)	MINIMUM Breaking Load (kN)	NOMINAL Weight (lbs./1,000 ft.)	NOMINAL Weight (kg/1,000m)
.092	2.34	1,450	6.45	22.90	34.40
.108	2.74	1,970	8.76	31.55	47.17
.125	3.18	2,600	11.57	42.30	63.03

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