

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 | 10.0 | 16.0 | 2.0 | | | | | | | |
| 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 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) | NOMINAL Breaking Load (lbf) | NOMINAL Breaking Load (kN) | NOMINAL Weight (lbs./1,000 ft.) | NOMINAL Weight (kg/1000 m) |
|---------------|--------------|-----------------------------------|----------------------------------|---------------------------------------|----------------------------------|
| .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