

## 825 Slickline

### UNS N08825

Alloy 825 was developed for use in aggressively corrosive environments. Alloy 825 offers exceptional resistance to pitting and crevice corrosion in sea water and H<sub>2</sub>S containing environments. The Ni content of the alloy promotes resistance to chloride ion stress corrosion cracking, also complimented with Mo and Cu in its composition endows alloy 825 with resistance to corrosion by reducing acids. GD™/SUPA® slicklines are manufactured as continuous weld free lengths. Every GD™/SUPA® slickline is 100% NDT and inspected. GD™/SUPA® slicklines are shipped on steel reels. Custom lengths and diameters are available.

#### Chemical Composition Range (wt%)

	Ni	Cr	Mo	Cu	Fe	Mn	Si	C	Al	Ti	P	S
Min	38.0	19.5	2.5	1.5	22.0					0.6		
Max	46.0	23.5	3.5	3.0		1.0	0.5	0.05	0.2	1.2	0.03	0.03

PRE = %Cr + 3.3x%Mo + 16x%N

PRE = 30 nominal

#### Physical Properties

Density	8.14 g/ cm <sup>3</sup>	0.294 lbs./in <sup>3</sup>
Thermal Expansion	14.1 x 10 <sup>-6</sup> (0 to 100 °C)	7.83 x 10 <sup>-6</sup> (32 °F to 212 °F)
Thermal Conductivity	12.4 W/m.°K (@ 100 °C)	86.0 BTU in/Ft <sup>2</sup> .h .°F (@212 °F)

Diameter		MINIMUM Breaking Load		NOMINAL Weight	
(in.)	(mm)	lbf	kN	(lbs./1,000 ft.)	(kg/1,000 m)
.092	2.34	1,065	4.74	23.45	34.93
.108	2.74	1,560	7.23	32.32	48.11

All lines are: Weld Free – 100% NDT- shipped on steel reels – custom lengths and diameters available

To maximize the life of your GD™/SUPA® SLICKLINE:

- Use properly sized sheaves 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

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