



Supernova 750®

Supernova 750® is a tried and tested cost-effective solution for extremely sour gas and oil well conditions with high concentrations of CO₂, H₂S and chloride.

Manufactured in Switzerland and certified to 9001:2008 all Supernova Slicklines are fully traceable, 100% Weld Free, 100% Eddy Current Tested and Wrap Tested.

All are produced with a consistent, tightly controlled surface finish, wire helix and wire cast for optimal spooling and in-service performance.

Suitable for service in Oil, Gas and Geothermal wells, Supernova 750® is a proven alternative to GD31Mo^{TD}, SUPA75®, Sanicro 26Mo, UGI® Slick B26 and Alloy 26-6Mo.

Key Characteristics

- High mechanical strength providing high breaking loads
- Very good resistance to crevice and stress corrosion cracking (SCC) in high concentrations of H₂S, Chloride and CO₂ environments (H₂S partial pressure up to 100 psi, CO₂ partial pressure up to 500 psi)
- Outstanding resistance to chloride induced stress corrosion cracking
- Very good resistance to pitting in aggressive chloride-containing environments and to general corrosion
- Good resistance to abrasion and erosion
- Able to operate in service temperatures of up to 250°C
- Excellent ductility and impact strength
- Non magnetic

Key Data

Standard Diameter ¹	Min Breaking Load	Min Tensile		Nominal Weight	Minimum Slickline Stretch ²	Minimum Sheave Diameter
		N/mm ²	Ksi			
Inches	lbf			lbs/ 1000ft	Inch/100ft/ 100lb	Inches
0.092	1580	1640	238	23.31	0.79	11
0.108	2170	1635	237	32.00	0.58	13
0.125	2950	1630	236	42.90	0.43	15
0.140	3480	1560	226	54.10	0.34	17
0.160	4440	1530	221	70.00	0.26	20

¹ Tolerance +/-0.001" - other diameters are available on request. ² Weight of tool string plus weight of wire of the drum.

Standard Lengths	15,000ft	18,000ft	6,000m	20,000ft	7,000m	25,000ft	8,000m	30,000ft
-------------------------	----------	----------	--------	----------	--------	----------	--------	----------

Other lengths are available on request.

Chemical Composition

Element		C	Si	Mn	P	S	Cr	Mo	Cu	Ni	N
Weight %	Min	-	-	-	-	-	19.50	6.00	0.80	24.50	0.15
	Max	0.02	0.50	1.00	0.03	0.005	21.00	6.70	1.00	26.00	0.20

Corrosion Resistance

PRE Number (PRE)

PRE: 43 - 46

$$PRE = Cr + 3.3 \times Mo + 16 \times N$$

Pitting Resistance Equivalent numbers (PRE) are a way of comparing the pitting corrosion resistance of various stainless steels based on the levels of chromium, molybdenum and nitrogen they contain with the most frequently used formula and Novametal's preferred method for calculating PRE numbers being:

$$PRE = \text{Chromium} + 3.3 \times \text{Molybdenum} + 16 \times \text{Nitrogen.}$$

Some suppliers may use a factor of 30 x N, resulting in a marginally inflated PRE Number.

Grade Selection

To ensure you obtain the optimal slickline for your requirements we will be pleased to make a recommendation on the most cost-effective material selection. Well environment details may be sent by email to enquiries@pei-me.com

Physical Properties

Density	g/cm ³	8.1
Coefficient of Linear Expansion	µm/m/°C	15.0
Thermal Conductivity	W/m.K	12.0

Safe Working Loads (SWL)

Novametal recommends a maximum safe working load of 60% based on the published Minimum Break Load.

Where permitted by operating procedures and contractual constraints, the SWL may be set at 60% of the certified Actual Breaking Load.

Anyone wishing to operate with a higher SWL is encouraged to contact Novametal direct before doing so.

Other Mechanical Properties

Yield Strength	(0.2% P.S.)	80 -90% UTS
Elastic Strength		22 - 28% UTS
Minimum Wraps		8

Certification & Packaging

Reel specific Test Certificates are issued for all slicklines giving alloy chemistry, breaking load and key mechanical properties. All Supernova Slicklines are supplied on metal reels in individual treated timber crates for easy handling and safe storage.

Specific Heat	j/kg.K	415
Resistivity	µOhm Cm	96
Magnetic Permeability		1.01

Other Slickline Grades Available

ZERON® 100 **SUPERNOVA® 316** **SUPERNOVA® 400** **SUPERNOVA® 700**

Disclaimer

Whilst every care has been taken to ensure the accuracy of this publication Novametal SA makes no guarantees or warranties, either expressed or implied, with respect to the accuracy and use of this information. All product warranties and guarantees are governed by our standard Conditions of Sale. Recommendations are for guidance only and the suitability of a material for a specific application may only be confirmed when the actual service conditions are known. Continuous product development may necessitate changes without notice to both the product and this publication.

Supernova 316®, 400®, 700® and 750® are the registered trademarks of Novametal SA. GD31Mo™ and SUPA75® are the trademark and registered trademark of Central Wire Industries. UGI® Slick B26 is the register trademark of Ugitec. Sanicro 26Mo is produced by Sandvik AB. Alloy 25-6Mo is produced by Zapp Precision Wire Inc. ZERON® 100 is a registered trademark of Rolled Alloys.

Novametal Wire UK Ltd. is a subsidiary of Novametal SA and the global distributor of all Supernova products.

Petroleum Equipment International Middle East FZC
P.O. Box 53801, Hamriyah Free Zone, Sharjah, United Arab Emirates
Contact Number: +971 50 9608014

Web: www.pei-me.com
Email: enquiries@pei-me.com

SN750: IMP0325