

# GD22™ Slickline for Medium Sour Wells.

Material grade UNS S32205/UNS S31803

GD22™ Slicklines combine high strength with excellent resistance to corrosion, pitting and stress corrosion in wells with medium concentrations of CO<sub>2</sub>, H<sub>2</sub>S and Low Chlorides.

Chemical Composition Range		
Element	Min	Max
Ni	4.5	6.5
Cr	21.1	23.0
Mo	2.5	3.5

Si	N/A	1.0
Mn	N/A	2.0
N	0.14	0.20
C	N/A	0.03
P	N/A	0.03
S	N/A	0.02

Mechanical Properties			
Diameter	Nom. B. Load**	Approx. Weight	Min. Pulley Diameter
Ins.	Lbs.	Lbs./1000ft	Ins.
0.082	1350	18	10
0.092	1600	23	11
0.108	2200	31	13
0.125	3000	43	15
0.140	3650	54	17
0.160	4400	68	19

\*\*DWS recommends a maximum safe working load of 60% Actual Breaking Load (ABL) when jarring and 70% ABL for straight pulls.

Typical Physical Properties	
Density	7.8g/cc
Modulus of Elasticity	200GPA
Hardness Rockwell B	105
Recommended service temperature range:	-50 to 280°C
PREN= 31 TO 38 (PREN=%Cr + 3.3 x %Mo + 16%N)	

GD22™ is an austenitic-ferritic Stainless Steel with Molybdenum addition. Made up of approximately equal amounts of Ferrite and Austenite. It combines higher tensile strength with excellent resistance to localized inter-granular corrosion, pitting, crevice corrosion and chloride stress corrosion cracking. It performs well in environments that can cause early failure in standard austenitic grades. To assist the user in obtaining optimum working life from his Slicklines, DWS offers a tailor made wire management system whereby actual working data is recorded for subsequent detailed analysis and report. As part of the system, an operator can return a piece of wire in use for quick analysis by an independent laboratory. A report on the condition of the wire and its suitability for further use is then issued.

High cost savings have been made through the use of this system.