



HSM Wire International, Inc

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Alloy GD31Mo™ Alloy

Description: Alloy GD31Mo is a super austenitic stainless steel suitable for well conditions with CO₂, H₂S and Chlorides. GD31Mo™ is a registered Trademark of Central Wire Industries LTD

Applications: Used as components in and around oil field and gas production

Nominal Composition:	Ni	Cr	Mo	Cu	Mn	N	C
	24.5 - 25.5	20 - 21	6 - 6.8	0.8 - 1.0	1.0	0.15 - 0.25	0.02
	S	P					
	0.005	0.03					

Physical Properties

				Metric Units		English Units	
Density				8.9 gm/cu cm		0.293 lbs/cu in.	
Thermal Expansion (10⁻⁶K)				16.6 (0 - 100°C)		9.2 (32 - 212°F)	
Thermal Conductivity				12.9 W/m (100°C)		89 Btu.in/ft ² .h (212°F)	
Dia. (in)	Dia. (mm)	Min Breaking Load (lbs.f)	Min Breaking Load (kN)	Minimum Sheave Size (in)	Min. Sheave Size (mm)	Weight (lbs/100 ft)	Weight (Kg/100m)
0.072	1.83	960	4.27	10	256	14.32	21.3
0.092	2.34	1600	6.89	13	330	23.37	34.78
0.108	2.74	2170	9.65	15	381	32.21	47.93
0.125	3.18	2850	12.68	18	457	43.15	64.21
0.14	3.56	3400	15.12	20	508	54.12	80.5
0.15	3.81	4020	17.88	21	534	62.13	92.47
0.16	4.06	4400	19.57	23	585	70.7	105.21

*To be used as a guideline only.

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