



HSM Wire International, Inc

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Alloy 601 Inconel Alloy

Description: Alloy 601 is a nickel-chromium-iron alloy. Alloy 601 is a general purpose engineering material that require resistance to heat and corrosion. Alloy 601 has outstanding resistance to high temperature oxidation.

Applications: Used as components in and around Chemical processing, areospace industry and power generation.

Nominal Composition:	Ni	Cr	Fe	Al	C	Mn	S
	58 - 63	21 - 25	Balance	1 - 1.7	0.10 max	1.0 max	0.015 max
	Si	Cu					
	0.5 max	1.0 max					

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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