

NICKEL ALLOY 625 SHEET AND PLATE

Alloy 625 - AMS 5599, AMS 5869 (alternatively known by Special Metals trade name Inconel 625) is a nickel chromium alloy used for its high strength, excellent fabricability and very good corrosion resistance. Excellent creep and rupture strength make it a good choice for high temperature applications, while exceptional fatigue resistance widens its uses. Alloy 625 is extensively used in the marine industry as well as chemical, motorsport, nuclear and aerospace applications.

Specific Gravity													
8.44 g/cm ³													
Typical Applications							Related Specifications						
Motor racing exhaust systems Chemical Processing Aerospace equipment Jet Engine exhaust systems Chimney Linings Nuclear waste reprocessing equipment Sour gas production tubes							AMS 5599 AMS 5599 DDQ AMS 5869 AMS 5879 LCF ASTM B443 ASME SB 443 BS 3075 NA21 DIN 17750						
Chemical Composition (Wt %)													
	Ni	Cr	Fe	Mo	Nb+Ta	C	Mn	Si	Ph	S	Al	Ti	Co
Min	Bal	20	–	8	3.15	–	–	–	–	–	–	–	–
Max	–	23	5	10	4.15	0.10	0.50	0.50	0.015	0.015	0.40	0.40	1.0
Mechanical Properties in annealed condition													
0.2% Proof Stress						Tensile Strength		Elongation		Reduction of area		Hardness	
MPA						MPA		%		%		HRB	
Min						Min		Min		Min		Min	

414	827	30	40	145
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* This data has been supplied in good faith and is indicative only. It has been provided for general information purposes only and is not to be relied upon in place of the full specification. Mechanical properties can vary considerably with different supply conditions such as heat treatment or temper and product dimensions.

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