

AMS 5662, AMS 5663 - ALLIAGE DE NICKEL 718 BARRES

L'alliage 718 (également connu sous le nom commercial de Special Metals Inconel 718) est un alliage nickel-chrome qui peut être traité thermiquement pour donner une résistance élevée, une bonne résistance à la corrosion et est facilement fabriqué en pièces complexes avec une très bonne résistance à la fissuration après soudage. L'alliage 718 peut fonctionner efficacement entre -423 et 1300 degrés F.

Specific Gravity															
7.98 g/cm3															
Typical Applications								Related Specifications							
Land based gas turbine engines								AMS 5662							
Jet Engines								AMS 5663							
Fasteners								UNS N07718							
Instrumentation parts								ASTM B637							
Mandrels								W.Nr 2.4668							
Well head completion equipment								MSRR 7114							
								MSRR 7115							
								NACE MR0175							
Chemical Composition															
	Ni	Cr	Fe	Mo	Nb+Ta	C	Mn	Si	Ph	S	Ti	Cu	B	Al	Co
Min	50	17	Bal	2.8	4.75	–	–	–	–	–	0.65	–	–	0.20	–
Max	55	21	–	3.3	5.50	0.08	0.035	0.35	0.015	0.015	1.15	0.30	0.0006	0.80	1.00
Mechanical Properties in Solution Annealed and Aged Condition for Aerospace bar															
0.2% Proof Stress								Tensile Strength	Elongation	Reduction of area	Hardness				
MPA								MPA	%	%	HB				
Min								Min	Min	Min	Min				
1034								1275	12	15	331				
Mechanical Properties in Solution Annealed and Aged Condition for Oil patch bar															

0.2% Proof Stress	Tensile Strength	Elongation	Reduction of area	Hardness
MPA	MPA	%	%	HRC
Min	Min	Min	Min	Min
827	1034	17	25	40

* Every effort has been made to ensure that our technical specifications are accurate. However, technical specifications included within Dynamic Metals Ltd should be used as a guideline only and are subject to change without notice.

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