

AMS 5596, AMS 5597, Nickel Alloy 718 Sheet & Plate

Typical Applications

Exhausts

Liquid rocket components involving cryogenic temperatures



Alloy 718 (alternatively known by Special Metals trade name Inconel 718) AMS 5596, AMS 5597, is a nickel chromium alloy which can be heat treated to give high strength, good corrosion resistance and is readily fabricated into complex parts with a very good resistance to postweld cracking. Alloy 718 can work effectively between -423 to 1300 deg F.

Related Products

Alloy 200 201

Alloy 625 Bar

Alloy 625 Sheet And Plate

Alloy 718 Bar

Alloy 718 Sheet Plate

Alloy 75

Alloy 80A

Alloy X750

Alloy X Bar

Alloy X Sheet Plate

C263

Mp159 R Bar

Mp35N R

Rene 41

Waspaloy

Alloy 90

Alloy 901

Technical specification

Related Specifications

AMS 5596

AMS 5597

UNS N07718

ASTM B670

Specific Gravity

7.98 g/cm³

Chemical Composition (WT %)

	Min	Max
Ni	50	55
Cr	17	21
Fe	Bal	-
Mo	2.8	3.3
Nb+Ta	4.75	5.50
C	-	0.08
Mn	-	0.035
Si	-	0.35
Ph	-	0.015
S	-	0.015
Ti	0.65	1.15
Cu	-	0.30
B	-	0.0006
Al	-	0.40
Co	-	1.0

Mechanical Properties in the annealed condition

T: +44 (0)1525 217 556

Conversion Centre

Suite 2 Meadowhall Riverside
Meadowhall Road
Sheffield
South Yorkshire
S9 1BW

T: +44 (0)1143 030 320

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