

AMS 5754, AMS 5798 - Nickel Alloy X Bar

Typical Applications

Gas Turbine engine components



Alloy X is an austenitic nickel base alloy containing approximately 22 percent chromium for outstanding resistance to oxidation at high temperatures. In addition, the alloy, which is solid solution strengthened, possesses exceptional strength at elevated temperatures.

The alloy (AMS 5798, AMS 5754) has good high temperature and stress rupture properties above 1450°F and can be used for applications up to 2200°F. In addition Alloy X contains high levels of nickel and molybdenum providing good levels of corrosion resistance similar to high nickel alloys more customarily used in corrosion applications.

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

Alloy 625

Alloy 718

Alloy X

Technical specification

Related Specifications

AMS 5754

AMS 5798

UNS N06002

*Specific Gravity*8.22 g/cm³*Chemical Composition (WT %)*

	Min	Max
Cr	20.5	23
Mo	8	10
Co	0.58	2.5
W	0.2	1.0
Al	-	0.5
Ti	-	0.15
B	-	0.01
C	0.05	0.15
Fe	17	20
Mn	-	1.0
Si	-	1.0
P	-	0.04
S	-	0.03
Cu	-	0.5

Typical Mechanical Properties

		Temp deg f	70	1000	1200	1400	1600
0.2% Proof Stress	MPA	-	379	284	276	268	221
Tensile Strength	MPA	-	765	702	654	529	355
Elongation	MPA	-	44	49	54	53	58

The data for each supplier is presented in a tabular way. Information provided to general information includes company name, a website link and year in place of the last application. Additional information regarding the company includes: sales, different supply conditions and any new investments in design and product development.

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The following provides the principal characteristics that define organizations. We assume a perspective wherein a number of these characteristics are present in organizations and differences in the definition is associated with the size.

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As a consequence, the sample is different from the population and therefore is unrepresentative of it. The error of the sample is therefore the difference between the value of the population and the value of the sample.

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