AMS 5536 - Nickel Alloy X Sheet And Plate

Typical Applications

Gas Turbine engine components

Furnace Components

Heat treating equipment

Alloy X (alternatively known by Haynes trade name Hastelloy 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 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

Technical specification

Related Specifications

ASTM B435

AMS 5536

UNS N06002

Specific Gravity

8.22 g/cm3

Chemical Composition (WT %)

	Min	Max
Cr	20.5	23
Mo	8	10
Co	0.5	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
Ni	-	Bal

Typical Mechanical Properties

		Temp deg f	70	1000	1200	1400	1600
0.2% Proof Stress	MPA	-	324	284	272	261	177
Tensile Strength	MPA	-	720	648	472	435	252
Elongation	MPA	-	46	45	37	37	51

Need more information? ***Get in touch***

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