AMS 5666, Alloy 625 Bar

Typical Applications

Propellor Blades

Propulsion Motors

Springs

Seals

Bellows

Fasteners

Flexure devices

Alloy 625 (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.

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 5666

ASTM B446

UNS N06625

W.Nr 2.4856

BS 3076 NA21

ASME SB 466

Din 17752

Density

8.44 g/cm3

Chemical Composition (WT %)

	Min	Max
Ni	Bal	-
Cr	20	23
Fe	-	5
Mo	8	10
Nb+Ta	3.15	4.15
C	-	0.10
Mn	-	0.50
Si	-	0.50
Ph	-	0.015
S	-	0.015
Al	-	0.40
Ti	-	0.40

Co	-	1.0

Mechanical Properties after heat treatment

0.2% Proof Stress	MPA	Min	414
Tensile Strength	MPA	Min	827
Elongation	%	Min	30
Reduction of area	&	Min	40
Hardness	HB	Min	145

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

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