

# AMS 5599, AMS 5869, Nickel Alloy 625 Sheet & Plate

## *Typical Applications*

Motor racing exhaust systems

Chemical Processing

Aerospace equipment

Jet Engine exhaust systems

Chimney Linings

Nuclear waste reprocessing equipment

Sour gas production tubes



*Alloy 625 - AMS 5599, AMS 5869 (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 5599**

**AMS 5599 DDQ**

**AMS 5869**

**AMS 5879 LCF**

ASTM B443

ASME SB 443

BS 3075 NA21

DIN 17750

### *Specific Gravity*

8.44 g/cm<sup>3</sup>

### *Chemical Composition (WT %)*

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



## Conversion Centre

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

T: +44 (0)1143 030 320

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