

## Stainless Steel

## AMS 5629 (13-8)

Datasheet Updated  
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### SPECIFICATIONS

Commercial	13-8
Aerospace	AMS 5629

A precipitation hardenable chromium-nickel-molybdenum martensitic stainless grade.

### CHEMICAL COMPOSITION

Element	% Present
Carbon (C)	0.00 - 0.05
Chromium (Cr)	12.25 - 13.25
Manganese (Mn)	0.00 - 0.10
Silicon (Si)	0.00 - 0.10
Phosphorous (P)	0.00 - 0.01
Sulphur (S)	0.00 - 0.01
Nickel (Ni)	7.50 - 8.50
Molybdenum (Mo)	2.00 - 2.50
Aluminium (Al)	0.90 - 1.35
Nitrogen (N)	0.00 - 0.01
Iron (Fe)	Balance

### ALLOY DESIGNATIONS

- AISI 632
- AMS 5629
- AMS 5864
- ASTM A564 (XM-13)
- ASTM A693 (XM-13)
- ASTM A705 (XM-13)
- DIN 1.4534
- UNS S13800

### SUPPLIED FORMS

- Bar
- Strip
- Forgings
- Sheet
- Extrusions
- Rod
- Plate

### APPLICATIONS

- Landing gear and aircraft structural parts
- Valves
- Shafts
- Components in the petrochemical and nuclear industries
- Motorsport components
- Injection moulding equipment
- Fittings and fasteners

### CHARACTERISTICS

- Excellent strength
- High hardness
- Superior toughness
- Excellent weldability
- Good corrosion resistance
- Excellent machinability

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