

AMS 6514 - Maraging 300 Stainless Steel

Typical Applications

Driveshafts

Gears

Fasteners

Landing and Takeoff gear

Missile and ejector systems

Torsion springs

Maraging 300 (also known as Vascomax® 300) is an 18% nickel, cobalt strengthened steel.

It is a very high strength material reaching a UTS of 1930 MPA after heat treatment. It is produced by Vacuum Induction Melting (VIM) followed by Vacuum Arc Remelting (VAR).

Technical specification

Related Specifications

AMS 6514

ASTM A538

Mil-S-46850D

UNS K93120

W.Nr 1.6358

Specific Gravity

8.0 g/cm³

Chemical Composition (WT %)

| | Min | Max |
|-----------|-----|------|
| | | |
| C | - | 0.03 |
| Si | - | 0.10 |

| | | |
|-----------|------|-------|
| | | |
| Mn | - | 0.10 |
| P | - | 0.010 |
| S | - | 0.010 |
| Al | 0.05 | 0.15 |
| Co | 8.5 | 9.5 |
| Ni | 18.0 | 19.00 |
| Mo | 4.6 | 5.20 |
| Ti | 0.5 | 0.8 |
| Cr | - | 0.5 |
| Cu | - | 0.5 |
| Fe | Bal | - |

Typical Mechanical Properties after heat treatment

| | | | |
|--------------------------|-----|-----|------|
| 0.2% Proof Stress | MPA | Min | 1862 |
|--------------------------|-----|-----|------|

| | | | |
|-------------------------|-----|-----|------|
| Tensile Strength | MPA | Min | 1930 |
| Elongation | & | Min | 5 |
| Hardness | HRC | Min | 52 |

Need more information? **Get in touch**

General Enquiries

+44(0) 1525 217 556

[Email us here](#)

Head Office

40 Eden Way
 Chartwell Business Park
 Leighton Buzzard
 Bedfordshire
 LU7 4FY

T: +44 (0)1525 217 556

Conversion Centre

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

T: +44 (0)1143 030 320

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