

A286 Cold Reduced

AMS: 5853 / 5726 / 5731 / 5732 / 5734 / 5736 / 5737

This specification covers a corrosion and heat-resisting steel in the form of work hardened bar. A286 cold reduced nickel bar 15% -17% is typically used in fastener applications requiring room temperature minimum tensile strength of 160 ksi and for use at temperatures up to 1000° F and requiring oxidation resistance up to 1200° F. A286 stainless steel is typically multiple melted with either a vacuum arc remelt (VAR) or electroslag remelt (ESR) practice in the remelt cycle.

Nominal Composition

- **c** Carbon 0.08%
- Mn Manganese 2.00%
- Phosphorous 0.025%
- s Sulfur 0.025%
- Si Silicon 1.00%
- cr Chromium 13.50 16.00%
- Ni Nickel 24.00 27.00%
- Mo Molybdenum 1.00 1.50%
- Ti Titanium 1.90 2.35%
- Vanadium 0.10 0.50%
- Aluminum 0.35%
- B Boron 0.003 0.010%
- **Cu** Copper 0.50%

Percent by weight, maximum unless a range is listed.

Standard Inventory Specifications

- AMS 5853 (160 ksi)
- AMS 5726
- AMS 5731
- AMS 5732 Heading Stock
- AMS 5734 Heading Stock
- AMS 5736 Heading Stock
- AMS 5737 Heading Stock

Forms Stocked

- A286 CR Bar
- Cold reduced 15-17%
- Cold reduced 40-60%

Thickness Stocked – 15-17% CR

- 0.260" 1.510" Bar
- 0.020" 0.125" Coil
- 0.020" 0.125" Sheet

Thickness Stocked – 40-60% CR

• 0.385" - 1.010" - Bar

Industry Applications

Aerospace fasteners



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Or click here to view our product page and request a quote on cold reduced a286 bars

^{*}The technical data provided is for information only and not for design purposes. It is not warranted or guaranteed.

Physical Properties

Property	Value
Density	0.286 lbs/in3, 7.92 g/cm3

Mechanical Properties

Property	Value
Yield Strength	120 ksi minimum
Elongation (4D)	12% minimum
Reduction of Area	18% minimum
Hardness	298 BN minimum