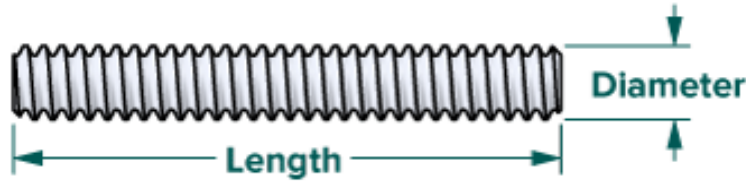




Cordova Bolt, Inc.

All Threaded Rods Product Information



1.0 Dimensions: As per ASME B18.31.3.

- Threaded rods have two dimensions, thread and length.

- **Thread: ASME B1.1**

ASTM A307 Grade A. Plain: 1A. Zinc Plated: 1A before zinc plating and after zinc plating should meet 3A GO and 1A NO GO thread ring gage condition. Hot Dip Galvanized: 1A before coating.

ASTM F1554 Grade 36: Plain: 1A. Zinc Plated: 1A before zinc plating and after zinc plating should meet 3A GO and 1A NO GO thread ring gage condition.

ASTM F1554 Grade 55 S1 Weldable: Plain. 1A

ASTM F593 304 & 316: Passivated. 1A

ASTM A193/A193M or ASME SA-193 /SA-193M Grade B7: Plain: 2A. Zinc Plated: 2A before zinc plating and after zinc plating should meet 3A GO and 2A NO GO thread ring gage condition.

ASTM A193/A193M or ASME SA-193 /SA-193M Grade B8 & B8M: Plain: 2A.

- **Length:** Threaded Rods are measured end to end. Length tolerance is greater than or less than $\frac{1}{4}$ " inch for nominal lengths less than 6 feet and greater than or less than $\frac{1}{2}$ " inch for nominal lengths 6 feet and longer.
- Threaded rods will not be pointed at the end.

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2.0 Mechanical Properties

2.1 Steel

Standard/Grade	Hardness	Tensile Strength
ASTM A307 Grade A	100 HRB Max	Minimum 60,000 PSI

Standard/Grade	Hardness	Tensile Strength	Yield Strength	Elongation Minimum	Reduction of Area Minimum
ASTM A193/A193M Or ASME SA-193/SA-193M. Grade B7	35 HRC Maximum	Minimum 125,000 PSI	Minimum 105,000 PSI	16%	50%

Standard/Grade	Tensile Strength	Yield Strength	Elongation Minimum	Reduction of Area Minimum
ASTM F1554 Grade 36	Minimum 58,000 PSI Maximum 80,000 PSI	Minimum 36,000 PSI	Elongation in 8 inch: 20% Elongation in 2 inch: 23%	40%
ASTM F1554 Grade 55 S1 Weldable	Minimum 75,000 PSI Maximum 95,000 PSI	Minimum 55,000 PSI	Elongation in 8 inch: 18% Elongation in 2 inch: 21%	30%

2.2 Stainless Steel

Standard/Grade	Diameter	Condition	Hardness	Tensile Strength	Yield Strength
ASTM F593 304 (18-8) & 316	1/4" to 5/8" inclusive	CW1	HRB 95 to HRC 32	100,000 PSI to 150,000 PSI	65,000 PSI
	3/4" to 1-1/2" inclusive	CW2	HRB 80 to HRC 32	85,000 PSI to 140,000 PSI	45,000 PSI

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Standard/Grade	Hardness	Tensile Strength	Yield Strength	Elongation Minimum	Reduction of Area Minimum
ASTM A193/ A193M or ASME SA-193/ SA-193M. Grade B8 and B8M	96 HRB Max	Minimum 75,000 PSI	Minimum 30,000 PSI	30%	50%

3.0 Surface Finish: Plain/Zinc/HDG. Zinc and HDG details included in the following table.

Properties	Zinc Clear	Hot Dip Galvanized
Type	Trivalent (Cr+3)	RoHS Compliant
Color	Clear	
Coating Thickness	0.0001"/ 3 Microns Minimum	For sizes 3/8" and under: minimum 0.0017" (43 microns) and for sizes over 3/8" minimum 0.0020" (50 microns)
Specification	ASTM f1941/ F1941M. Fe/Zn 3AN	ASTM F2329

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