

## PRODUCT OVERVIEW

ASTM A193 B7 is an alloy which includes chromium and molybdenum for added strength and corrosion resistance, rendering it suitable for applications that are highly susceptible to corrosion at high temperatures. For example, common uses are in chemical and petroleum facilities. All America Threaded Products supplies Domestic B7 threaded rod products in any length up to 12 feet.

- **Diameters\*:** 3/8", 1/2", 5/8", 3/4", 7/8", 1", 1¼", and 1 ½"
- **Lengths:** Any length up to 12'
- **Finishes:** Plain, Yellow Zinc, Black Oxide, Hot-Dip Galvanized
- **Products:** Threaded Rod, Studs
- **Applications:** High pressure or high temperature environments including valves, boilers, press vessels, and pipe flanges.



Tempering at 1100° F gives B7 a high tensile strength with greater ductility than comparative specifications.


- **Upon request, material certificates and material test reports are available at the time of order.**
- **Domestic Raw Material B7 Products are Price on Application**

## B7 PRODUCT OFFERING

### AATP CAPABILITIES

Specification	Grade	Diameters*	UNC/UNF	Products	Lengths	Stock Finishes
ASTM A193	B7	3/8" 1/2" 5/8" 3/4" 7/8" 1" 1-1/4" 1-1/2"	UNC Coarse	<u>Threaded Rod</u> <u>Threaded Studs</u> Single/Double End	Any length up to 12'	Plain, Yellow Zinc, Black Oxide, <u>Hot-Dip Galvanized</u>

### MECHANICAL PROPERTIES

Specification	Grade	Marking	Diameters*	UNC/UNF	Tensile (ksi)	Yield (ksi min)	Elong % (min)	RA% (min)	HRC
ASTMA193	B7		3/8" 1/2" 5/8" 3/4" 7/8" 1" 1-1/4" 1-1/2"	UNC UNF	125 min	105	16	50	35 max

### CHEMICAL PROPERTIES

Specification	Grade	Carbon	Manganese	Phosphorus	Sulfur	Silicon	Chromium	Molybdenum	Treatment
ASTM A193	B7	0.38 - 0.48	0.75 - 1.00	0.035 max	0.040 max	0.15 - 0.35	0.80 - 1.10	0.15 - 0.25	Quench/Temper

\*Not all diameters available for all finishes