

**Manufacturers & Stockists of Nickel Alloy, Titanium Alloys, Special Metals & Stainless Steel Products**

## **ASTM A193 GRADE B7 FASTENERS**

We Jade Special Metals are well known manufacturer, exporter And supplier of ASTM A193 Grade B7 Fasteners  
ASTM A193 Grade B7 bolts and threaded studs are manufactured from a chromium-molybdenum steel and are quenched and tempered (heat treated) to develop the desired mechanical properties (strength). Grade B7 is the most common grade of A193 bolts used in construction. B7 threaded studs and short, headed bolts are readily available in the marketplace. Grade B7 bolts are commonly used in pipe flange connections. These bolts are typically bought and sold in a plain, bare metal finish but are often hot-dip galvanized, zinc plated, Xylan coated, PTFE coated, or otherwise coated for corrosion resistance. Note that coated bolts may not be able to withstand the high temperatures that uncoated B7 bolts can be subjected to.



ASTM A193 Grade B7 Hex Bolts Size Metric	Dia: M10 - M110 Length: 12 MM - 1200MM
SA 193 B7 Hex Bolts Size Inch	Dia: 1/2" - 4.0" Length: 1/2" - 52"
A193 B7 Stud Bolt Metric Size	Dia: M10 - M110 Length: 12 MM - 6000 MM
ASME SA193 Grade B7 Stud Bolt Inch	Dia: 1/2" - 4.1/2" Length: 1/2" - 236"
Alloy Steel ASTM A193 gr B7 Fasteners Threads	BSF, UNF METRIC, UNC, UNEF, BSW or as required
ASME/ ANSI - American Standard ASTM A193 Grade B7 Bolts	ANSI B 28.2.4 1M ANSI B 18.2.4 2M ASME B18.5 ASME B18.2.2
DIN German Standard ASTM A193 Grade B7 Bolts	DIN 933, DIN 931, DIN 970, DIN 934
ISO Standard A193 B7 Bolts	ISO 4033, : ISO 4032, JIS standards
ASTM A193 Grade B7 Bolts Coating	Xylan Coated Fasteners Phosphate Coated Fasteners Hot Dipped Galvanizing Coated Fasteners Teflon Coated Fasteners Zinc Coated Fasteners Cadmium Coated Fasteners Ptfe Coated (Teflon) Fasteners

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**ALLOY STEEL A193 B7 BOLTS CHEMICAL COMPOSITION:**

Grade	C	Mn	P	S	Si	Cr	Mo
B7	0.37 - 0.49%	0.65 - 1.10%	0.035%	0.040%	0.15 - 0.35%	0.75 - 1.20%	0.15 - 0.25%

**ASTM A193 B7 BOLTS MECHANICAL PROPERTIES:**

Grade	Size	Tensile ksi, min	Yield, ksi, min	Elong, %, min	RA % min	HBW	HRC
B7	Up to 2-1/2	125	105	16	50	321 max	35 max
	2-5/8 - 4	115	95	16	50		
	4-1/8 - 7	100	75	18	50		

**RECOMMENDED NUTS & WASHERS**

Nut Specification	Washer Specification
ASTM A194 Grade 2H OR ASTM A194 Grade 2HM	ASTM F436



**HEX BOLT**



**STUD BOLT**



**ALLEN HEAD BOLT**

If you have any requirement for ASTM A193 B7 Fasteners or technical queries about A193 B7 Fasteners, please feel free to contact us on [sales@jadealloys.com](mailto:sales@jadealloys.com) or call us on +91 9987685906