

ASTM A193 specifies the requirements for alloy-steel and stainless steel bolting materials for high temperature or high pressure service applications.

Our A193 Grade Full Thread Studs are manufactured with precision, ensuring superior strength, reliability and performance in critical environments.

ASTM A193

GRADE FULL THREAD STUDS

HIGH TENSILE ALLOY STEEL FASTENERS



DIMENSIONS TABLE

Nominal Size (d)	Pitch (UNC) TPI	Length (L) (mm)		Minimum Tensile Stress Area (mm ²)
		Min.	Max.	
1/4"	20	38	1000	27.0
5/16"	18	38	1000	43.6
3/8"	16	38	1000	61.0
7/16"	14	51	1000	83.0
1/2"	13	51	1000	110.0
9/16"	12	64	1000	142.0
5/8"	11	64	1000	175.0
3/4"	10	76	1000	248.0
7/8"	9	89	1000	334.0
1"	8	102	1000	459.0
1-1/8"	7	114	1000	574.0
1-1/4"	7	127	1000	748.0
1-3/8"	6	140	1000	969.0
1-1/2"	6	152	1000	1170.0
1-3/4"	5	165	1000	1658.0
2"	4.5	178	1000	2036.0

Note: Longer lengths available on request. Custom sizes available.

MECHANICAL PROPERTIES (MINIMUM)

ASTM A193 GRADE	Tensile Strength (MPa)	Yield Strength (MPa)	Elongation in 50mm (%)	Reduction of Area (%)	Hardness (HB)
B7	860	725	16	50	248
B8	515	205	30	50	217
B8M	515	205	30	50	217
B8C	620	310	20	50	217
B8T	515	205	30	50	217
B16	415	205	30	50	217
B6	760	550	18	45	248
B5	655	450	18	45	217
B62	450	280	30	50	217
B82	655	450	18	45	217

KEY FEATURES

- ✓ Manufactured as per ASTM A193 / ASME SA193
- ✓ High tensile strength & superior load-bearing capacity
- ✓ Excellent resistance to high temperature & pressure
- ✓ Precision rolled threads for perfect fit and grip
- ✓ Available in multiple grades & custom sizes
- ✓ Zinc plated, HDG, PTFE, Xylan coatings available on request

MATERIAL GRADES

- Carbon Steel: B7, B5, B6, B16
- Stainless Steel: B8, B8M, B8C, B8T
- Other Alloys: B62, B82

All grades manufactured with certified raw materials & PMI verified.



STANDARDS

- ASTM A193 / ASME SA193
- ASTM A194 (Nuts)
- ASME B18.31.2
- ASME B18.2.1
- ISO 898-1 (Mechanical Properties)



APPLICATIONS



WHY CHOOSE AANURAJ FASTENERS?

- ✓ ISO 9001:2015 Certified Company
- ✓ State-of-the-art Manufacturing Facility
- ✓ Strict Quality Control & Testing
- ✓ Timely Delivery & Customer Support
- ✓ Custom Solutions as per Client Requirement



GET IN TOUCH

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**QUALITY YOU TRUST,
STRENGTH YOU COUNT ON**

AANURAJ FASTENERS PVT. LTD.

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