



Chemical Requirements
Carbon Alloy & Stainless Steel Threaded Rod & Studs
ASTM A193 / ASME SA193; ASTM A320 / ASME SA320

Composition in percent

Grade	Carbon	Manganese max	Phosphorus max	Sulfur max	Silicon max	Chromium	Nickel	Molybdenum	Vanadium	Aluminum max
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	---	---
B7M	0.37-0.49	0.65-1.10	0.035	0.040	0.15-0.35	0.75-1.20	---	0.15-0.25	---	---
B16	0.36-0.47	0.45-0.70	0.035	0.040	0.15-0.35	0.80-1.15	---	0.50-0.65	0.25-0.35	0.015
B6	0.15 max	1.00	0.040	0.030	1.00	11.5-13.5	---	---	---	---
B8	0.080 max	2.00	0.045	0.030	1.00	18.0-20.0	8.0-11.0	---	---	---
B8 Class 2	0.080 max	2.00	0.045	0.030	1.00	18.0-20.0	8.0-11.0	---	---	---
B8M	0.080 max	2.00	0.045	0.030	1.00	16.0-18.0	10.0-14.0	2.00-3.00	---	---
B8M Class 2	0.080 max	2.00	0.045	0.030	1.00	16.0-18.0	10.0-14.0	2.00-3.00	---	---
L7	0.38-0.48	0.75-1.00	0.035	0.040	0.15-0.35	0.80-1.10	---	0.15-0.25	---	---
L43	0.38-0.43	0.60-0.85	0.035	0.040	0.15-0.35	0.70-0.90	1.65-2.00	0.20-0.30	---	---

DISCLAIMER: Please note that this information is produced for general information purposes only. Please consult the appropriate material specification to ensure the specific information you require is accurate.