

ASTM A193 B8 BOLT

AUSTENITIC STEEL

TYPE 304 SS

MECHANICAL PROPERTIES

HEAT TREATMENT ALL DIAMETERS	TENSILE STRENGTH,MIN KSI	YIELD STRENGTH,MIN,0.2% OFFSET, KSI	ELONGATION IN 4D,MIN, %	REDUCTION OF AREA,MIN, %	HARDNESS, MAX
CARBIDE SOLUTION TREATED	75	30	30	50	223 HB OR 96 HRC

CHEMICAL PROPERTIES

ELEMENT	RANGE	PRODUCT VARIATION, OVER OR UNDER
CARBON, MAX	0.08	0.01 OVER
MANGANESE, MAX	2.00	0.04 OVER
PHOSPHORUS, MAX	0.045	0.010 OVER
SULFUR, MAX	0.030	0.005 OVER
SILICON, MAX	1.00	0.05 OVER
CHROMIUM	18.0-20.0	0.20
NICKEL	8.0-11.0	0.15

B8 BOLTS ARE INTENDED FOR USE IN PRESSURE VESSELS, VALVES, FLANGES, AND FITTINGS FOR HIGH TEMPERATURE OR HIGH PRESSURE SERVICE, OR OTHER SPECIAL PURPOSE APPLICATIONS. B8 BOLTS ARE SUPPLIED IN A HEAVY HEAD PATTERN PER ASME B18.2.1 STANDARD FOR SQUARE AND HEX BOLTS AND SCREWS. THE NUT NORMALLY USED WITH A B8 BOLT IS AN A194 GR 8 HEAVY HEX NUT.

NOTE: PROPERTIES AND APPLICATION PARAMETERS ARE TYPICAL AND ARE PRESENTED IN GOOD FAITH BUT NO WARRANTY IS EXPRESSED OR IMPLIED.