

ASTM A193 B8 BOLT CLASS 2

AUSTENITIC STEEL

TYPE 304 SS STRAIN HARDENED

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	125	100	12	35	321 HB OR 35 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 CL. 2 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 CL. 2 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 CL. 2 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.