

316SS BOLT

STAINLESS STEEL

(TYPE 316)

MECHANICAL PROPERTIES

FULL SIZE BOLTS, SCREWS, STUDS		MACHINED TEST SPECIMENS OF BOLTS, SCREWS, STUDS			
YIELD STRENGTH, MIN, 0.2% OFFSET, PSI	TENSILE STRENGTH, MIN PSI	YIELD STRENGTH, MIN, 0.2% OFFSET, PSI	TENSILE STRENGTH, MIN PSI	ELONGATION IN 4D, MIN, %	HARDNESS ROCKWELL, MIN
50,000	90,000	45,000	85,000	20	B85

CHEMICAL PROPERTIES

ELEMENT	CHEMICAL COMPOSITION, % MAX (UNLESS MIN/MAX LIMITS GIVEN)
CARBON	0.08
MANGANESE	2.00
PHOSPHORUS, MAX	0.045
SULFUR, MAX	0.030
SILICON	1.00
CHROMIUM	16.00-18.00
MOLYBDENUM	2.00-3.00
NICKEL	10.00-14.00

316SS BOLTS ARE INTENDED FOR USE IN CORROSIVE ENVIRONMENTS. ADDED NICKEL AND MOLYBDENUM GIVE THEM SUPERIOR CORROSION RESISTANCE AND INCREASED TENSILE STRENGTH AT HIGH TEMPERATURES WHEN COMPARED TO 304SS. 316SS BOLTS ARE SUPPLIED IN A HEX HEAD PATTERN PER ASME B18.2.1 STANDARD FOR SQUARE AND HEX BOLTS AND SCREWS. THE NUT NORMALLY USED WITH A 316SS BOLT IS A 316SS HEX NUT.

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