ASTM A325 BOLT TYPE 1

MEDIUM CARBON STEEL

MECHANICAL PROPERTIES

DIAMETER	PROOFLOAD LB.	TENSILE STRENGTH MIN. LB.	HARDNESS REQUIREMENTS	
½”-13	12,050	17,050	BRINELL MIN MAX ½ TO 1” INCL	ROCKWELL MIN MAX ½ TO 1” INCL
5/8”-11	19,200	27,100	LESS THAN 2D 253 319	25 34
¾”-10	28,400	40,100	2D AND OVER …… 319	…… 34
7/8”-9	39,250	55,450		
1”-8	51,500	72,700	1-1/8 TO 1-1/2” INCL	1-1/8 TO 1-1/2 INCL
1-1/8”-7	56,450	80,100	LESS THAN 3D 223 286	19 30
1-1/4”-7	71,700	101,700	3D AND OVER …… 286	…… 30
1-3/8”-6	85,450	121,300		
1-1/2”-6	104,000	147,500		

CHEMICAL PROPERTIES

ELEMENT	HEAT ANALYSIS	PRODUCT ANALYSIS
CARBON, MAX	0.30-0.52	0.28-0.55
MANGANESE, MIN	0.60	0.57
PHOSPHORUS, MAX	0.040	0.048
SULFUR, MAX	0.050	0.058
SILICON	0.15-0.30	0.13-0.32

A325 BOLTS ARE INTENDED FOR USE IN STRUCTURAL CONNECTIONS. A325 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 AN A325 BOLT IS AN A194 GR 2H OR DH HEAVY HEX NUT.

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