

MECHANICAL OR PHYSICAL PROPERTIES OF BOLTS (ASTM F3125)

MECHANICAL PROPERTY	TENSILE STRENGTH		YIELD STRENGTH	ELONGATION IN 4D	REDUCTION IN AREA
	Min.	Max.	Min	Min %	Min %
Inch 120 ksi, Grade A325, F1852	120000 psi	-	92000 psi	14	35
Inch 150 ksi, Grade A490, F2280	150000 psi	173000 psi	130000 psi	14	40
Metric 830 MPa, Grade A325M	830 MPa	-	660 MPa	14	35
Metric 1040 MPa, Grade A490M	1040 MPa	1210 MPa	940 MPa	14	40

HARDNESS REQUIREMENT		120 ksi / 830 MPa Tensile Grade A325, A325M, F1852				150 ksi / 1040MPa Tensile Grade A490, A490M, F2280			
		Brinell HB		Rockwell HRC		Brinell HB		Rockwell HRC	
		Min	Max	Min	Max	Min	Max	Min	Max
Up to 1 in, M24 inclusive	Less than 2D	253	319	25	34	311	352	33	38
	2D and longer	-	319	-	34	-	352	-	38
Over 1 in, M24	Less than 3D	253	319	25	34	311	352	33	38
	3D and longer	-	319	-	34	-	352	-	38