



# Internal Thread and Material Marking Chart

Material Marking	Specification	Material	Size Range	Proof Load Stress (ksi)	Hardness Rockwell	
					Min	Max
	ASTM A563 Grade C	Carbon Steel May be Quenched & Tempered	¼ thru 4 over 1 thru 1-½	144 105	B78	C38
	ASTM A563 Grade C3	Atmospheric Corrosion Resistant Steel May be Quenched & Tempered	¼ thru 4	144	B78	C38
	ASTM A563 Grade D	Carbon Steel May be Quenched & Tempered	¼ thru 4	150	B84	C38
	ASTM A563 Grade DH	Carbon Steel Quenched & Tempered	¼ thru 4	175	C24	C38
	ASTM A563 Grade DH3	Atmospheric Corrosion Resistant Steel, Quenched & Tempered	¼ thru 4	175	C24	C38
	ASTM A194 Grade 2H	Medium Carbon Steel, Quenched & Tempered	¼ thru 4	175	C24	C38
	ASTM A194 Grade 2HM	Medium Carbon Steel, Quenched & Tempered	¼ thru 4	150	159	237
	ASTM A194 Grade 4	Medium Carbon Alloy Steel, Quenched & Tempered	¼ thru 4	175	C24	C38
	ASTM A194 Grade 7	Medium Carbon Alloy Steel, Quenched & Tempered	¼ thru 4	175	C24	C38
	ASTM A194 Grade 7M	Medium Carbon Alloy Steel, Quenched & Tempered	¼ thru 4	150	159	237
	SAE J995 Grade 5	Medium Carbon Steel, Quenched & Tempered	¼ thru 1 over 1 thru 1-½	120 105		C32
	SAE J995 Grade 8	Medium Carbon Alloy Steel, Quenched & Tempered	¼ thru ⅝ over ⅝ thru 1 C26 over 1 thru 1 ½	150	C24 C26 C26	C32 C34 C36
F594C	ASTM F594 Grp 1 Cond CW1	303, 304, 304L, 305, 384, XM1, 18-9LW, 302HQ, 303Se	¼ thru ⅝	100,000	B95	C35
F594D	ASTM F594 Grp 1 Cond CW2		¾ Thru 1 ½	85,000	B80	C35
F594G	ASTM F594 Grp 2 Cond CW1	316, 316L	¼ thru ⅝	100,000	B95	C35
F594H	ASTM F594 Grp 2 Cond CW2		¾ Thru 1 ½	85,000	B80	C35
8	ISO 898 Class 8	Alloy Steel, Quenched, & Tempered	All Sizes thru 38mm	116000 145000 174000	B89	C35
10	ISO 898 Class 10				C26	C35
12	ISO 898 Class 12				C26	C35
A2-70	ISO 3506 A2	321, 347	All Sizes Thru 20mm	100,000	B96	C33
A4-70	ISO 3506 A4	316, 316L				