





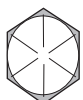







FASTENER IDENTIFICATION MARKING

Grade Identification Marking	Specifications	Material	Nominal Size	Proof Load Stress ksi	Tensile Strength Min. ksi	Hardness Rockwell	
						Min.	Max.
 No Markings	SAE J429 Grade 1	Low or Medium Carbon Steel	1/4 through 1-1/2	33	60	B70	B100
	SAE J429 Grade 2		1/4 through 3/4 over 3/4 through 1-1/2	55 33	74 60	B80 B70	B100 B100
	ASTM A307 - Grade A		1/4 through 4	-	60	B69	B100
	ASTM A307 - Grade B		1/4 through 4	-	60 min 100 max	B69	B95
	SAE J429 - Grade 5	Medium Carbon Steel, Quenched and Tempered	1/4 through 1	85	120	C25	C34
	ASTM A449 - Type 1		over 1 through 1-1/2	74	105	C19	C30
	ASTM A325 - Type 1	Medium Carbon Steel, Quenched and Tempered	1/2 through 1 over 1 to 1-1/2	85 74	120 105	C24 C19	C35 C31
	ASTM A325 - Type 2	Low Carbon Martensite Steel, Quenched and Tempered					
	ASTM A325 - Type 3 Refer to Note 5 - Page 12	Atmospheric Corrosion Resistant Steel, Quenched and Tempered					
	ASTM A354 - Grade BC	Medium Carbon Alloy Steel, Quenched and Tempered	1/4 through 2-1/2 over 2-1/2 through 4	105 95	125 115	C26 C22	C36 C33
	SAE J429 - Grade 8	Medium Carbon Alloy Steel, Quenched and Tempered	1/4 through 1-1/2	120	150	C33	C39
	ASTM A354 - Grade BD Refer to Note 6 - Page 12		1/4 through 2-1/2 over 2-1/2 through 4	120 105	150 140	C33 C33	C39 C39
	SAE J429 - Grade B2	Low Carbon Martensite Steel, Quenched and Tempered	1/4 through 1	120	150	C33	C39
	ASTM A490 - Type 1	Medium Carbon Alloy Steel, Quenched and Tempered	1/2 through 1-1/2	120	150 min. 170 max.	C33	C38
	ASTM A490 - Type 2	Low Carbon Martensite Steel, Quenched and Tempered	1/2 through 1	120	150 min. 170 max.	C33	C38
	ASTM A490 - Type 3 Refer to Note 5 - Page 12	Atmospheric Corrosion Resistant Steel, Quenched and Tempered	1/2 through 1-1/2	120	150 min. 170 max.	C33	C38
	ASTM A-193 - Grade B7	4140 Alloy Steel Quenched and Tempered	1/2 to 3-1/2	105	125 min.		

Grade Identification markings for popular grades of carbon steel, externally threaded fasteners