












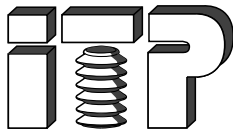


• FASTENER IDENTIFICATION MARKING •

Grade Identification Marking	Specification	Material	Nominal Size In.	Proof Load Stress ksi	Tensile Strength Min ksi	Hardness Rockwell		See Note
						Min	Max	
 NO MARK	SAE J429 – Grade 1	Low or Medium Carbon Steel	1/4 thru 1 1/2	33	60	B70	B100	
	SAE J429 – Grade 2		1/4 thru 3/4	55	74	B80	B100	
	ASTM A307 – Grade A		over 3/4 thru 1 1/2	33	60	B70	B100	
	ASTM A307 – Grade B		1/4 thru 4	—	60	B69	B100	
	SAE J429 – Grade 5 ASTM A449 – Type 1	Medium Carbon Steel, Quenched and Tempered	1/4 thru 1 over 1 thru 1 1/2	85 74	120 105	C25 C19	C34 C30	
	ASTM A449 – Type 1		over 1 1/2 thru 3	55	90	183	235	3
	SAE J429 – Grade 5.1	Low or Medium Carbon Steel, Quenched and Tempered	No. 6 thru 1/2	85	120	C25	C40	4
	SAE J429 – Grade 5.2 ASTM A449 – Type 2	Low Carbon Martensite Steel, Quenched and Tempered	1/4 thru 1	85	120	C26	C36	
						C25	C34	
	ASTM A325 – Type 1	Medium Carbon Steel, Quenched and Tempered	1/2 thru 1 over 1 to 1 1/2	85 74	120 105	C24 C19	C35 C31	5
	ASTM A325 – Type 2	Low Carbon Martensite Steel, Quenched and Tempered						
	ASTM A325 – Type 3	Atmospheric Corrosion Resistant Steel, Quenched and Tempered						
	ASTM A354 – Grade BC	Medium Carbon Alloy Steel, Quenched and Tempered	1/4 thru 2 1/2 over 2 1/2 thru 4	105 95	125 115	C26 C22	C36 C33	
	SAE J429 – Grade 8 ASTM A354 – Grade BD	Medium Carbon Alloy Steel, Quenched and Tempered	1/4 thru 1 1/2	120	150	C33	C39	
			1/4 thru 2 1/2 over 2 1/2 thru 4	120 105	150 140	C33 C31	C39 C39	7
	SAE J429 – Grade 8.2	Low Carbon Martensite Steel, Quenched and Tempered	1/4 thru 1	120	150	C33	C39	
	ASTM A490 – Type 1	Medium Carbon Alloy Steel, Quenched and Tempered	1/2 thru 1 1/2	120	150 min 170 max	C33	C38	
	ASTM A490 – Type 2	Low Carbon Martensite Steel, Quenched and Tempered	1/2 thru 1	120	150 min 170 max	C33	C38	
	ASTM A490 – Type 3	Atmospheric Corrosion Resistant Steel, Quenched and Tempered	1/2 thru 1 1/2	120	150 min 170 max	C33	C38	6
See Note 1, 2	8							

UPON REQUEST

Complete Physical & Chemical Documentation Including
Heat & Lot Numbers



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