

The Screamin' Nuts



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Fastener Identification Marking

Grade Identification Marking	Specification	Materials	Nominal Size In.	Proof Load Stress ksi	Tensile Strength Min ksi	Hardness Rockwell	
						Min	Max
NO MARK	SAE J429 — Grade 1	Low or Medium Carbon Steel	¼ thru 1½	33	60	B70	B100
	SAE J429 — Grade 2		¼ thru ¾ over ¾ thru 1½	55 33	74 60	B80 B70	B100 B100
	ASTM A307 — Grade A		¼ thru 4	—	60	B69	B100
	ASTM A307 — Grade B		¼ thru 4	—	60 min 100 max	B69	B100
	SAE J429 — Grade 5 ASTM A449 — Type 1	Medium Carbon Steel, Quenched and Tempered	¼ thru 1 over 1 thru 1½	85 74	120 105	C25 C19	C34 C30
	ASTM A449 — Type 1		over 1½ thru 3	55	90	183	235
	SAE J429 — Grade 5.1	Low or Medium Carbon Steel, Quenched and Tempered	No. 6 thru ½	85	120	C25	C40
	SAE J429 — Grade 5.2 ASTM A449 — Type 2	Low Carbon Martensite Steel, Quenched and Tempered	¼ thru 1	85	120	C26	C36
	C25					C34	
A325	ASTM A325 — Type 1	Medium Carbon Steel, Quenched and Tempered	½ thru 1 over 1 to 1½	85 74	120 105	C24 C19	C35 C35
A325	ASTM A325 — Type 2	Low Carbon Martensite Steel, Quenched and Tempered					
A325	ASTM A325 — Type 3	Atmospheric Corrosion Resistant Steel, Quenched and Tempered					
BC	ASTM A354 — Grade BC	Medium Carbon Alloy Steel, Quenched and Tempered	¼ thru 2½ over 2½ 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	¼ thru 1½	120	150	C33	C39
	¼ thru 2½ over 2½ thru 4		120 105	150 140	C33 C31	C39 C39	
	SAE J429 — Grade 8.2	Low Carbon Martensite Steel, Quenched and Tempered	¼ thru 1	120	150	C33	C39
A490	ASTM A490 — Type 1	Medium Carbon Alloy Steel, Quenched and Tempered	½ thru 1½	120	150 min 170 max	C33	C38
A490	ASTM A490 — Type 2	Low Carbon Martensite Steel, Quenched and Tempered	½ thru 1	120	150 min 170 max	C33	C38
A490	ASTM A490 — Type 3	Atmospheric Corrosion Resistant Steel, Quenched and Tempered	½ thru 1½	120	150 min 170 max	C33	C38

Grade Identification Marking	Specification	Materials	Nominal Size In.	Proof Load Stress ksi	Hardness Rockwell	
					Min	Max
NO MARK	ASTM A563 — Grade 0	Carbon Steel	¼ thru 1½	69	B55	C32
	ASTM A563 — Grade A	Carbon Steel	¼ thru 1½	90	B68	C32
	ASTM A563 — Grade B	Carbon Steel	¼ thru 1 over 1 thru 1½	120 105	B69	C32
	ASTM A563 — Grade C	Carbon Steel May be Quenched and Tempered	¼ thru 4	144	B78	C38
	ASTM A563 — Grade C3	Atmospheric Corrosion Resistant Steel, May be Quenched and Tempered	¼ thru 4	144	B78	C38
	ASTM A563 — Grade D	Carbon Steel, May be Quenched and Tempered	¼ thru 4	150	B84	C38
	ASTM A563 — Grade DH	Carbon Steel, Quenched and Tempered	¼ thru 4	175	C24	C38
	ASTM A563 — Grade DH3	Atmospheric Corrosion Resistant Steel, Quenched and Tempered	¼ thru 4	175	C24	C38
	ASTM A194 — Grade 1	Carbon Steel	¼ thru 4	130	B70	—
	ASTM A194 — Grade 2	Medium Carbon Steel	¼ thru 4	150	159	352
	ASTM A194 — Grade 2H	Medium Carbon Steel, Quenched and Tempered	¼ thru 4	175	C24	C38
	ASTM A194 — Grade 2HM	Medium Carbon Steel, Quenched and Tempered	¼ thru 4	150	159	237
	ASTM A194 — Grade 4	Medium Carbon Alloy Steel, Quenched and Tempered	¼ thru 4	175	C24	C38
	ASTM A194 — Grade 7	Medium Carbon Alloy Steel, Quenched and Tempered	¼ thru 4	175	C24	C38
	ASTM A194 — Grade 7M	Medium Carbon Alloy Steel, Quenched and Tempered	¼ thru 4	150	159	237