

























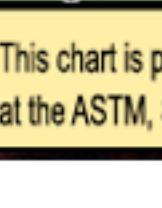




### Standard Industrial Nut Markings

Markings/Image	Specifications	Materials	Tensile	Hardness
	ASTMA563 - Grade 0	Carbon Steel	69	B55 - C32
	ASTMA563 - Grade A	Carbon Steel	90	B68 - C32
	ASTMA563 - Grade B ( $< 3/4" - 1 1/2" \varnothing$ )	Carbon Steel Carbon Steel	120 105	B69 - C32
	ASTMA563 - Grade C	Carbon Steel, May Be Quenched & Tempered	144	B78 - C38
	ASTMA563 - Grade C3	Atmospheric Corrosion Resistant Steel May Be Quenched & Tempered.	144	B78 - C38
	ASTMA563 - Grade D	Carbon Steel, May Be Quenched & Tempered	150	B84 - C38
	ASTMA563 - Grade DH	Carbon Steel, May Be Quenched & Tempered	175	C24 - C38
	ASTMA563 - Grade DH3	Atmospheric Corrosion Resistant Steel May Be Quenched & Tempered.	175	C24 - C38
	ASTMA194 - Grade 1	Carbon Steel	130	B70 -
	ASTMA194 - Grade 2	Medium Carbon Steel	150	159 - 352
	ASTMA194 - Grade 2H	Medium Carbon Steel Quenched & Tempered	175	C24 - C38
	ASTMA194 - Grade 2HM	Medium Carbon Steel Quenched & Tempered	150	159 - 237
	ASTMA194 - Grade 4	Med. Carbon Alloy Steel Quenched & Tempered	175	C24 - C38
	ASTMA194 - Grade 7	Med. Carbon Alloy Steel Quenched & Tempered	175	C24 - C38
	ASTMA194 - Grade 7M	Med. Carbon Alloy Steel Quenched & Tempered	150	159 - 237
	SAE J995 - GRADE 2	Carbon Steel	90	C32
	SAE J995 - Grade 5	Carbon Steel	109-120 94-105	C32 C32
	SAE J995 - Grade 8	Medium Carbon or Alloy Steel, Quenched and Tempered.	150	C24 - C32 C26 - C34 C26 - C36

### Standard Industrial Bolt Markings

Markings/Image	Specifications	Materials	Proof KSI	Tensile (KSI)	Hardness Rockwell
	SAE J429 - Grade 1 ( $1/4" - 1 1/2" \varnothing$ ) SAE J429 - Grade 2 ( $< 3/4" - 1 1/2" \varnothing$ )	Low or Medium Carbon Steel	33 55 33	60 74 60	B70 - B100 B80 - B100 B70 - B100
	ASTM A307 - Grade A ( $1/4" - 4" \varnothing$ )	Low or Medium Carbon Steel	—	60	B69 - B100
	ASTM A307 - Grade B (Heavy Head Mach. Bolt)		—	60 Min 100 Max	B69 - B95
	SAE J429 - Grade 5 ASTM A449 - Type 1 ( $< 1" - 1 1/2" \varnothing$ ) ( $1 1/2" - 3" \varnothing$ )	Medium Carbon Steel, Quenched & Tempered	85 74 55	120 105 90	C25 - C34 C19 - C30 183 - 235
	SAE J429 - Grade 5.1	Low or Medium Carbon Steel, Quenched and Tempered.	85	120	C25 - C40
	SAE J429 - Grade 5.2 ASTM A449 - Type 2	Low Carbon Martensitic Steel Quenched & Tempered	85	120	C26 - C36 C25 - C34
	ASTM A325 - Type 1 ( $< 1" - 1 1/2" \varnothing$ )	Medium Carbon Steel, Quenched & Tempered	85 74	120 105	C24 - C35 C19 - C31
	ASTM A325 - Type 3	Atmospheric Corrosion Resistant Steel, Quenched & Tempered	85 74	120 105	C24 - C35 C19 - C31
	ASTM A354 - Grade BC	Medium Carbon Alloy Steel, Quenched and Tempered.	105 95	125 115	C26 - C36 C22 - C33
	SAE J429 - Grade 8	Medium Carbon Alloy Steel, Quenched and Tempered	120	150	C33 - C39
	ASTM A354 - Grade BD		120 105	150 140	C33 - C39 C31 - C39
	SAE J429 - Grade 8.2	Low Carbon Martensitic Steel Quenched & Tempered	120	150	C33 - C39
	ASTM A490 - Type 1	Medium Carbon Alloy Steel, Quenched and Tempered	120	150 min 170 max	C33 - C38
	ASTM A490 - Type 2	Low Carbon Martensitic Steel, Quenched & Tempered	120	150 min 170 max	C33 - C38
	ASTM A490 - Type 3	Atmospheric Corrosion Resistant Steel, Quenched & Tempered	120	150 min 170 max	C33 - C38

This chart is provided as a reference guide only. Actual Specifications can be found at the ASTM, SAE, and IFI websites or in the Industrial Fastener Institute Handbook.

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