





Grade Designation	Nominal Size of Product (Inches)	Material & Treatment	Mechanical Requirements						Grade Identification Marking
			Proof Load Stress ksi	Yield Strength ksi min	Tensile Strength ksi min	Product, Hardness, Rockwell			
						Surface Max	Core		
							Min	Max	
ASTM A307 GD A	1/4 to 4	Low or Medium Carbon Steel	-	-	60	-	B69	B100	307A
ASTM A307 GD B	1/4 to 4		-	-	60 min 100 max	-	B69	B95	307B
SAE GD 2	1/4 to 3/4	Low or Medium Carbon Steel, Cold Worked	55	57	74	-	B80	B100	None Specified
SAE GD 5	1/4 to 1 1-1/8 to 1-1/2	Medium Carbon Steel; The Product is Quenched and Tempered	85 74	92 81	120 105	30N54 30N50	C25 C19	C34 C30	
ASTM A449 TY 1	1/4 to 1 1-1/8 to 1-1/2 1-3/4 to 3		85 74	92 81	120 105	- -	C25 C19	C34 C30	A449
ASTM A325 TY 1	1/2 to 1 1-1/8 to 1-1/2		85 74	92 81	120 105	- -	C24 C19	C35 C31	A325
SAE GD 5.2	1/4 to 1	Low Carbon Boron Steel; The Product is Quenched and Tempered	85	92	120	30N56	C26	C36	
ASTM A325 TY 3	1/2 to 1 1-1/8 to 1-1/2	Atmospheric Corrosion Resistant Steel; The Product is Quenched and Tempered	85 74	92 81	120 105	- -	C24 C19	C35 C31	A325
SAE GD 8	1/4 to 1-1/2	Medium Carbon Steel; The Product is Quenched and Tempered	120	130	150	30N58.6	C33	C39	
ASTM A354 GD BD	1/4 to 2-1/2 2-3/4 to 4		120 105	130 115	150 140	- -	C33 C31	C39 C38	BD
ASTM A490 TY 1	1/2 to 1-1/2		120	130	150 min 170 max	- -	C33	C38	A490
SAE GD 8.2	1/4 to 1	Low Carbon Boron Steel; The Product is Quenched and Tempered	120	130	150	30N58.6	C33	C39	
ASTM A490 TY 3	1/2 to 1-1/2	Atmospheric Corrosion Resistant Steel; The Product is Quenched and Tempered	120	130	150 min 170 max	-	C33	C38	A490
ASTM A574	0.060 to 1/2	Fine Grain Alloy Steel Product is Quenched and Tempered	140	-	180	-	C39	C45	None Specified
	Over 1/2		135	-	170	-	C37	C45	

Notes:

1. In general, identification markings shall be located on the top of the product head and preferably shall be raised.
2. Six radial lines as for SAE Gd 8 are optional in addition to the mandatory BD mark for ASTM A354.