









Strength-Grade Designations for American and British Standard Fasteners

Table 4 American SAE Standard (AS 2465 is identical for Grades 2, 5, 8 only).

SAE Grade	Head Marking	Diameter	Tensile Strength lbf/in ² (min.)	"Proof Load" Stress lbf/in ²	Rockwell Hardness
1		1/4" to 1 1/2"	60,000	33,000	B70-BI00
2		1/4" to 3/4" over 3/4" to 1 1/2"	74,000 60,000	55,000 33,000	B80-BI00 B70-BI00
4	None (studs only)	1/4" to 1 1/2"	115,000	65,000	C22-C32
5 (Note 1)		1/4" to 1" Over 1" to 1 1/2"	120,000 105,000	85,000 74,000	C25-C34 C19-C30
5.1 (Note 2)		No.6 to 5/8"	120,000	85,000	C25-C40
5.2 (Note 3)		1/4" to 1"	120,000	85,000	C26-C36
7 (Note 4)		1/4" to 1 1/2"	133,000	105,000	C28-C34
8 (Note 5)		1/4" to 1 1/2"	150,000	120,000	C33-C39
8.1	None (studs only)	1/4" to 1 1/2"	150,000	120,000	C32-C38
8.2		1/4" to 1"	150,000	120,000	C33-C39

NOTES:

1. Medium carbon steel, quenched and tempered.
2. Sems (captive washer) assemblies. These are of low or medium carbon steel, quenched and tempered.
3. Low carbon boron steel, quenched and tempered.
4. Medium carbon alloy steel, quenched and tempered. Thread rolled after heat treatment.
5. Medium carbon alloy steel, quenched and tempered.