

Tensile Strength Comparison

Imperial Grades vs Metric Classes — Quick Reference for Fastener Strength Ratings

Imperial Grades lbf/in ² (PSI)	Metric Classes MPa (N/MM ²)
L9 -- 180,000 PSI -- HIGH TENSILE	CLASS 12.9 -- 1,200 MPA -- HIGH TENSILE
SAE GRADE 8 -- 150,000 PSI -- HIGH TENSILE	CLASS 10.9 -- 1,034 MPA-- HIGH TENSILE
SAE GRADE 5 -- 120,000 PSI -- HIGH TENSILE	CLASS 8.8 -- 827 MPA-- HIGH TENSILE
STAINLESS CLASS 80 (304--316) -- 116,000 PSI	STAINLESS CLASS 80 (304-316) -- 800 MPA
STAINLESS CLASS 70 (304-316) 101,000 PSI	STAINLESS CLASS 70 (304-316) -- 700 MPA
STAINLESS CLASS 50 (NO MARKINGS) -- 72,000 PSI	STAINLESS CLASS 50 (NO MARKINGS) -- 500 MPA
LOW CARBON -- 62,000 PSI	427 MPA
58,015 PSI	CLASS 4.6 - 400 MPA

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