

Head markings

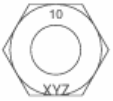
Common Hex Steel (Imperial)

Identification Mark				
Product Specifications	Grade 2	Grade 5	Grade 8	Socket Head Cap Screw
Tensile Strength Minimum	≤ 3/4 74000 > 3/4 60000	≤ 1" 120000 > 1" 105000	150000	≤ 1/2 180000 > 1/2 170000

Common Hex Steel (Metric)

Identification Mark					
Product Specifications	Class 4.6	Class 5.8	Class 8.8	Class 10.9	Class 12.9 Socket Head Cap Screw
Tensile Strength Minimum	400 MPa (58000 psi)	520 MPa (75000 psi)	≤ M16 800 MPa (116030 psi)	1040 MPa (150000 psi)	1220 MPa (176000 psi)

Common Nuts — Proof Load

Identification Mark						
Product Specifications	Class 5	Class 8	Class 10	Grade 2	Grade 5	Grade 8
Proof Load	> M10 610 MPa > M16 630 MPa	≤ M16 880 MPa > M16 920 MPa	≤ M16 1040 MPa > M16 1050 MPa	90000 psi	120000 psi	150000 psi
	METRIC			INCH		

Common Stainless Steel

Identification Mark			
Product Specifications	304 Stainless Steel	316 Stainless Steel	316 Stainless Steel
Tensile Strength Minimum	700 MPa (100000 psi)	700 MPa (100000 psi)	800 MPa (116000 psi)

Tensile Strength: Is an expression of the maximum load (load in tension) that a fastener can support prior to, or coincident with its fracture.

Tensile Strength is expressed in pounds per square inch (lbf/in²) or psi in the inch system.

In the metric system it is expressed in Newtons per square millimetre (N/mm²) or Megapascals (MPa).