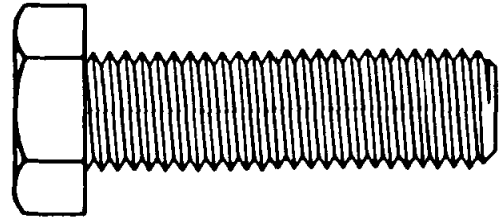


HEX TAP BOLTS



Description	<p>Grade-2 Tap Bolt: A low carbon, hex head bolt with a machined point which is threaded to the head.</p> <p>Grade-5 Tap Bolt: A tap bolt made from medium carbon steel.</p> <p>Grade-8 Tap Bolt: A tap bolt made from medium carbon alloy steel and heat-treated.</p>
Applications/ Advantages	<p>Grade-2 Tap Bolt: To be used in drilled and tapped holes which are threaded full length. Used instead of a stud and a nut.</p> <p>Grade-5 Tap Bolt: Us to mount motors to machinery; also popular in automotive and truck repair.</p> <p>Grade-8 Tap Bolt: Used in automotive and fleet industries where greater tensile strength is required than can be met by a grade-5.</p>
Material	<p>Grade-2 Tap Bolt: AISI 1006 - 1025 or equivalent steel.</p> <p>Grade-5 Tap Bolt: AISI 1030 - 1541 or equivalent medium carbon steel. Use of an alloy such as 4037 modified steel is also acceptable.</p> <p>Grade-8 Tap Bolt: Medium carbon alloy steel. Note: For diameters 1/4 through 7/16 inch, it is permissible to use AISI 1541 steel.</p>
Heat Treatment	<p>Grade-5 Tap Bolt: Bolts shall be heat treated, oil or water quenched, at the option of the manufacturer, and tempered at a minimum tempering temperature of 800°F.</p> <p>Grade-8 Tap Bolt: Bolts shall be heat treated, oil quenched and tempered at a minimum tempering temperature of 800°F.</p>
Core Hardness	<p>Grade-2 Tap Bolt: Rockwell B80 - B100</p> <p>Grade-5 Tap Bolt: Rockwell C25 - C34</p> <p>Grade-8 Tap Bolt: Rockwell C33 - C39</p>
Surface Hardness	<p>Grade-5 Tap Bolt: Rockwell 30N54 maximum</p> <p>Grade-8 Tap Bolt: Rockwell 30N58.6 maximum</p>
Proof Load	<p>Grade-2 Tap Bolt: 55,000 psi.</p> <p>Grade-5 Tap Bolt: 85,000 psi.</p> <p>Grade-8 Tap Bolt: 120,000 psi,</p>
Yield Strength*	<p>Grade-2 Tap Bolt: 57,000 psi. minimum</p> <p>Grade-5 Tap Bolt: 92,000 psi. minimum</p> <p>Grade-8 Tap Bolt: 130,000 psi. minimum</p>
Tensile Strength	<p>Grade-2 Tap Bolt: 74,000 psi. minimum</p> <p>Grade-5 Tap Bolt: 120,000 psi. minimum</p> <p>Grade-8 Tap Bolt: 150,000 psi. minimum</p>
Elongation*	<p>Grade-2 Tap Bolt: 18% minimum</p> <p>Grade-5 Tap Bolt: 14% minimum</p> <p>Grade-8 Tap Bolt: 12% minimum</p>
Reduction of Area*	<p>Grades-2, 5 & 8 Tap Bolts: 35% minimum (all sizes)</p>
Plating	<p>See Appendix-A for plating information.</p>