

# technical threads

## Common Specification References (not complete)

| ASTM STANDARDS  |   | SAE STANDARDS   | ANSI/ASME STANDARDS  |
|---|---|---|--|
| <b>153</b><br>Zinc coating (hot-dip) on iron and steel hardware                                       | <b>A540/A540M</b><br>Alloy steel bolting materials for special applications                         | <b>J82</b><br>Mechanical and quality requirements for machine screws                    | <b>B1.1</b><br>Unified inch screw threads (UN and UNR thread form) |
| <b>A165</b><br>Electrodeposited coating of cadmium on steel   | <b>A563</b><br>Carbon and alloy steel nuts  | <b>J104</b><br>Square and hex nuts  | <b>B18.2.1</b><br>Square and hex bolts and screws (inch series)    |
| <b>A193/A193M</b><br>Alloy steel and stainless steel bolting materials for high temperature service   | <b>A687</b><br>High strength non-headed steel bolts and studs                                       | <b>J105</b><br>Hex bolts  | <b>B18.2.2</b><br>Square and hex nuts (inch series)                |
| <b>A307</b><br>Carbon steel externally threaded standard fasteners                                    | <b>F436</b><br>Hardened steel washers   | <b>J122</b><br>Surface discontinuities on nuts  | <b>B18.6.1</b><br>Wood screws (inch series)                        |
| <b>A320/A320M</b><br>Alloy steel bolting materials for low temperature service                        | <b>F467</b><br>Nonferrous nuts for general use  | <b>J123</b><br>Surface discontinuities on bolts, screws, and studs                      | <b>B18.6.3</b><br>Machine screws and machine screw nuts            |
| <b>A325</b><br>High strength bolts for structural steel joints  | <b>F468</b><br>Nonferrous bolts, hex cap screws and studs for general use                           | <b>J429</b><br>Mechanical and material requirements for external threaded fasteners     | <b>B18.15</b><br>Forged eyebolts                                   |
| <b>A354</b><br>Quenched and tempered alloy steel bolts, studs and other externally threaded fasteners | <b>F541</b><br>Alloy steel eyebolts   | <b>J488</b><br>Plain washers  | <b>B18.21.1</b><br>Lock washers (inch series)                      |
| <b>A449</b><br>Quenched and tempered steel bolts and studs  | <b>F593</b><br>Stainless steel bolts, hex cap screws and studs                                      | <b>J489</b><br>Lock washers   | <b>B18.22.1</b><br>Plain washers                                   |
| <b>A489</b><br>Carbon steel eyebolts  | <b>F594</b><br>Stainless steel nuts   | <b>J995</b><br>Mechanical and material requirements for steel nuts                      | <b>B18.2.6</b><br>Fasteners for use in structural applications     |
| <b>A490</b><br>Heat treated steel structural bolts, 150 ksi tensile strength                          | <b>F959</b><br>Compressible washer type direct tension indicators for use with structural fasteners | <b>J1061</b><br>Surface discontinuities on general application bolts, screws, and studs |  |

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