

Marketed By:



فاستنر بوينت (ش.ذ.م.م.)
FASTENER POINT LLC



Manufactured By:



فاستنر بوينت للصناعات (ش.ذ.م.م.)
FASTENER POINT IND. LLC

| BOLT SIZE | PITCH | STRESS AREA | BOLT/SCREW & STUD ASTM A193M / A320M B8M-1 | | | | | | | | | | NUT ASTM A194M 8M | | | | |
|------------------------------------|---------------------------------------|-----------------|--|---------------------|-------------|--------------|------------|----------------|----------|-------------------|---------------------------------------|---------------|---------------------|--------------|--------------|------------|----------|
| | | | SHANK DIAMETER | WIDTH ACCROSS FLATS | HEAD HEIGHT | YIELD STRESS | YIELD LOAD | TENSILE STRESS | TORQUE * | REDUCTION OF AREA | HARDNESS | ELONG-ATION # | WIDTH ACCROSS FLATS | HEAD HEIGHT | PROOF STRESS | PROOF LOAD | HARDNESS |
| mm | mm | mm ² | mm | mm | mm | Mpa | KN | Mpa | N-m | % | HRB | % | mm | mm | Mpa | KN | HB |
| M6 | 1 | 20.1 | | | | 205 | 4.1 | 515 | 3.3 | 50- | -96 | 30- | | | 550 | 11.1 | 126-300 |
| M8 | 1.25 | 36.6 | | | | 205 | 7.5 | 515 | 8.1 | 50- | -96 | 30- | | | 550 | 20.1 | 126-300 |
| M10 | 1.5 | 58.0 | | | | 205 | 11.9 | 515 | 16.2 | 50- | -96 | 30- | | | 550 | 32.3 | 126-300 |
| M12 | 1.75 | 84.3 | 11.73~12.00 | 20.67~21.00 | 7.24~7.76 | 205 | 17.3 | 515 | 27.8 | 50- | -96 | 30- | 20.16~21.00 | 11.90~12.30 | 550 | 46.4 | 126-300 |
| M14 | 2.0 | 115.0 | 13.73~14.00 | 23.67~24.00 | 8.51~9.09 | 205 | 23.6 | 515 | 44.3 | 50- | -96 | 30- | 23.16~24.00 | 13.60~14.30 | 550 | 63.3 | 126-300 |
| M16 | 2.0 | 157.0 | 15.73~16.00 | 26.67~27.00 | 9.68~10.32 | 205 | 32.2 | 515 | 69.1 | 50- | -96 | 30- | 26.16~27.00 | 16.40~17.10 | 550 | 86.4 | 126-300 |
| M18 | 2.5 | 192.0 | | | | 205 | 39.4 | 515 | 95.1 | 50- | -96 | 30- | | | 550 | 105.6 | 126-300 |
| M20 | 2.5 | 245.0 | 19.67~20.00 | 33.00~34.00 | 12.12~12.88 | 205 | 50.2 | 515 | 134.9 | 50- | -96 | 30- | 33.00~34.00 | 19.40~20.70 | 550 | 134.8 | 126-300 |
| M22 | 2.5 | 303.0 | | | | 205 | 62.1 | 515 | 183.5 | 50- | -96 | 30- | 35.00~36.00 | 22.30~23.60 | 550 | 166.7 | 126-300 |
| M24 | 3.0 | 353.0 | 23.67~24.00 | 40.00~41.00 | 14.56~15.44 | 205 | 72.4 | 515 | 233.2 | 50- | -96 | 30- | 40.00~41.00 | 22.90~24.20 | 550 | 194.2 | 126-300 |
| M27 | 3.0 | 459.0 | | | | 205 | 94.1 | 515 | 341.1 | 50- | -96 | 30- | 45.00~46.00 | 26.30~27.60 | 550 | 252.5 | 126-300 |
| M30 | 3.5 | 561.0 | 29.67~30.00 | 49.00~50.00 | 17.92~19.48 | 205 | 115.0 | 515 | 463 | 50- | -96 | 30- | 49.00~50.00 | 29.10~30.70 | 550 | 308.6 | 126-300 |
| M33 | 3.5 | 694.0 | | | | 205 | 142.3 | 515 | 630 | 50- | -96 | 30- | | | 550 | 381.7 | 126-300 |
| M36 | 4.0 | 817.0 | 35.61~36.00 | 58.80~60.00 | 21.72~23.38 | 205 | 167.5 | 515 | 809 | 50- | -96 | 30- | 58.80~60.00 | 35.00~36.60 | 550 | 449.4 | 126-300 |
| M39 | 4.0 | 976.0 | | | | 205 | 200.1 | 515 | 1,048 | 50- | -96 | 30- | | | 550 | 536.8 | 126-300 |
| M42 | 4.5 | 1,120.0 | | | | 205 | 229.6 | 515 | 1,295 | 50- | -96 | 30- | 67.90~70.00 | 40.40~42.00 | 550 | 616.0 | 126-300 |
| M45 | 4.5 | 1,310.0 | | | | 205 | 268.6 | 515 | 1,622 | 50- | -96 | 30- | | | 550 | 720.5 | 126-300 |
| M48 | 5.0 | 1,470.0 | | | | 205 | 301.4 | 515 | 1,942 | 50- | -96 | 30- | 77.60~80.00 | 46.40~48.00 | 550 | 808.5 | 126-300 |
| M52 | 5.0 | 1,760.0 | | | | 205 | 360.8 | 515 | 2,519 | 50- | -96 | 30- | | | 550 | 968.0 | 126-300 |
| M56 | 5.5 | 2,030.0 | | | | 205 | 416.2 | 515 | 3,129 | 50- | -96 | 30- | 87.20~90.00 | 54.10~56.00 | 550 | 1,116.5 | 126-300 |
| M60 | 5.5 | 2,360.0 | | | | 205 | 483.8 | 515 | 3,897 | 50- | -96 | 30- | | | 550 | 1,298.0 | 126-300 |
| M64 | 6.0 | 2,680.0 | | | | 205 | 549.4 | 515 | 4,720 | 50- | -96 | 30- | 96.80~100.00 | 62.10~64.00 | 550 | 1,474.0 | 126-300 |
| M68 | 6.0 | 3,060.0 | | | | 205 | 627.3 | 515 | 5,727 | 50- | -96 | 30- | | | 550 | 1,683.0 | 126-300 |
| M72 | 6.0 | 3,460.0 | | | | 205 | 709.3 | 515 | 6,856 | 50- | -96 | 30- | 106.40~110.00 | 70.10~72.00 | 550 | 1,903.0 | 126-300 |
| M76 | 6.0 | 3,890.0 | | | | 205 | 797.5 | 515 | 8,136 | 50- | -96 | 30- | | | 550 | 2,139.5 | 126-300 |
| M80 | 6.0 | 4,340.0 | | | | 205 | 889.7 | 515 | 9,555 | 50- | -96 | 30- | 116.00~120.00 | 78.10~80.00 | 550 | 2,387.0 | 126-300 |
| M85 | 6.0 | 4,950.0 | | | | 205 | 1,014.8 | 515 | 11,580 | 50- | -96 | 30- | | | 550 | 2,722.5 | 126-300 |
| M90 | 6.0 | 5,590.0 | | | | 205 | 1,146.0 | 515 | 13,846 | 50- | -96 | 30- | 130.50~135.00 | 87.80~90.00 | 550 | 3,074.5 | 126-300 |
| M95 | 6.0 | 6,270.0 | | | | 205 | 1,285.4 | 515 | 16,393 | 50- | -96 | 30- | | | 550 | 3,448.5 | 126-300 |
| M100 | 6.0 | 6,990.0 | | | | 205 | 1,433.0 | 515 | 19,237 | 50- | -96 | 30- | 145.00~150.00 | 97.80~100.00 | 550 | 3,844.5 | 126-300 |
| Dimensions | HEAVY HEX as per ANSI/ASME B18.2.3.3M | | | | | | | | | | HEAVY HEX as per ANSI/ASME B18.2.4.6M | | | | | | |
| Markings | 'FPI' 'B8M' | | | | | | | | | | 'FPI' '8M' | | | | | | |
| Tempering °C | | | | | | | | | | | | | | | | | |
| Heating for 24Hours for the Nut °C | | | | | | | | | | | | | | | | | |
| Hardness After Heating | | | | | | | | | | | | | | | | | |
| Charpy Test Specimen 10X10X55 | | | | | | | | | | | | | | | | | |
| Charpy V Notch Impact test at | | | | | | | | | | | | | | | | | |
| Carbon | -0.08 | | | | | | | | | | -0.08 | | | | | | |
| Manganese | -2.0 | | | | | | | | | | -2.0 | | | | | | |
| Sulfur | -0.03 | | | | | | | | | | -0.03 | | | | | | |
| Silicon | -1.0 | | | | | | | | | | -1.0 | | | | | | |
| Chromium | 16.0-18.0 | | | | | | | | | | 16.0-18.0 | | | | | | |
| Molybdenum | 2.0-3.0 | | | | | | | | | | 2.0-3.0 | | | | | | |
| Nickle | 10.0-14.0 | | | | | | | | | | 10.0-14.0 | | | | | | |
| Vanadium | | | | | | | | | | | | | | | | | |
| Boron | | | | | | | | | | | | | | | | | |
| Copper | | | | | | | | | | | | | | | | | |
| Nitrogen | | | | | | | | | | | | | | | | | |
| Phosphorus | -0.045 | | | | | | | | | | -0.045 | | | | | | |
| Material | AISI 316 | | | | | | | | | | AISI 316 | | | | | | |

Notes:

Left hand side of '-' is minimum value
right hand side of '-' is maximum value
Eg. 0.5-0.7 min is 0.5 and max is 0.7
Eg. -0.8 max is 0.8 no minimum value
Eg. 2.0- min is 2.0 no maximum value

* Torque value based on 75% of proof load and finish as received steel
Elongation in length of 4 times Diameter

While every care has been taken in preparation of the information, the company accepts no liability for any loss or damage either direct or consequential, Please refer Original standards for details.