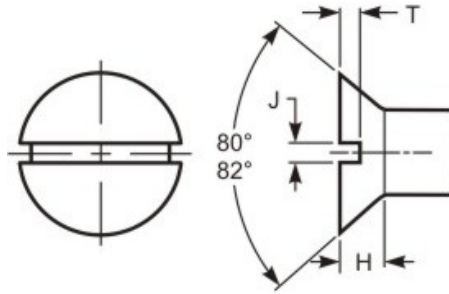


80°/82° - Flat Head - Slted



GRADE MARK

| THREAD DATA | | |
|--|---|---|
| Size: #6 | Threads per in.: 32 | Series Designation: UNC |
| Thread Class or Type: 2A | Major Diameter: 0.1372 - 0.1312 | Pitch and Functional Dia.: 0.1169 - 0.1141 |
| Tensile Stress Area: 0.0091 | Standard: ASME B1.1 - 2003 (R2008) | Length: 2 |
| Length Tolerance: -0.06 | | |
| DIMENSIONAL DATA | | |
| Type: 80°/82° - Flat Head - Slted | Standard: ASME B18.6.3 - 2013 | Nominal Diameter: 0.138 |
| A - Head Diameter: 0.262 - 0.238 | H - Head Height: 0.083 ref | J - Slot Width: 0.048 - 0.039 |
| T - Slot Depth: 0.038 - 0.024 | F - Protrusion Height: 0.036 - 0.021 | G - Gage Diameter: 0.220 |
| PHYSICAL REQUIREMENTS | | |
| Nominal: 0.138 | Standard: ASME B18.6.3-2013, Machine Screw (carbon steel) | Typical Materials: low carbon steel, 1010 through 1022 |
| Hardness: HRB 100 - 70 | Tensile Load, Min. (lbf): 545 | Yield PSI, 2% Offset, Machined Specimen: 36,000 |
| Tensile Strength, Min. (psi): 60,000 | Calculated Shear Load-BODY (ref.)(lbf): 327 | Calculated Shear Load-THREADS (ref.)(lbf): 273 |
| Straightness Factor: 0.012 | Calculated Pretension ² (lbf) : 246 | Tightening Torque ¹ : 1 ft.lbf, 7 in.lbf, 0.8 Nm |
| FINISH DATA | | |
| Finish: Zinc & Clear, non-hexavalent/Cr(VI) free - .0001"/ 3µm | K factor (ref. DIN 946): 0.22 | Standard: ASTM F1941/F1941M-2016, Fe/Zn 3AN |

¹ These torque values are based on K factors determined using DIN 946, tightening tension of 75% of the yield strength, and the calculation formula $T=KDP$. These values are advisory only. The torque for assembling critical joints should be determined and/or verified through actual experimentation by the user. The IFI is not responsible for any losses or claims resulting from the use of these values. ² Calculated Pretension is equal to 75% of the bolt's yield strength achieved when using the indicated Tightening Torque.