



## METRIC - DOMED CAP (ACORN) NUTS, CLASS 6

DIN 1587

| Nominal Size | Thread Pitch | F                  | G                    | H              | T           | Q              |
|--------------|--------------|--------------------|----------------------|----------------|-------------|----------------|
|              |              | Width Across Flats | Width Across Corners | Overall Height | Drill Depth | Hexagon Height |
|              |              | Ref                | Min                  | Ref            | Ref         | Ref            |
| M3           | 0.50         | 5.50               | 6.08                 | 6              | 3.80        | 3              |
| M4           | 0.70         | 7                  | 7.74                 | 8              | 5.50        | 4              |
| M5           | 0.80         | 8                  | 8.87                 | 10             | 7.50        | 5              |
| M6           | 1            | 10                 | 11.05                | 12             | 8           | 5              |
| M8           | 1.25         | 13                 | 14.38                | 15             | 11          | 6.50           |
| M10          | 1.50         | 17                 | 18.90                | 18             | 13          | 8              |
| M12          | 1.75         | 19                 | 21.10                | 22             | 16          | 10             |
| M16          | 2            | 24                 | 26.75                | 28             | 21          | 13             |
| M20          | 2.5          | 30                 | 33.53                | 34             | 26          | 16             |
| M24          | 3            | 36                 | 39.98                | 42             | 31          | 19             |

|                                 |                                                                                                                                                                                                        |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>              | A one-piece hex nut, milled-from-the-bar, with a dome-shaped top (similar in shape to an acorn) and a threaded hole at the opposite end.                                                               |
| <b>Applications/ Advantages</b> | Cap nuts serve two main purposes: (1) as decorative pieces, and (2) as covers for projecting threads.                                                                                                  |
| <b>Material</b>                 | Class 6 cap nuts shall be made from a low-carbon steel which conforms to the following chemical composition requirements--<br><i>Carbon: 0.50% max.; Phosphorus: 0.060% max.; Sulfur: 0.150% max..</i> |
| <b>Hardness</b>                 | <b>M3 - M16:</b> Vickers HV 150 - 302 (Rockwell B 78.7 - C 30)<br><b>over M16 - M24:</b> Vickers HV 170 - 302 (Rockwell B 85 - C 30)                                                                   |
| <b>Plating</b>                  | See Appendix-A for information about the plating of steel cap nuts.                                                                                                                                    |