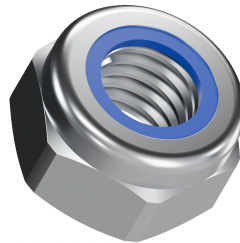


## DIN 985

Nylon Insert Lock Nut



|                |                                                                                    |        |                         |
|----------------|------------------------------------------------------------------------------------|--------|-------------------------|
| Standard       | DIN 985                                                                            |        |                         |
| Product Type   | Nylon Insert Lock Nut                                                              |        |                         |
| Material       | Stainless Steel, Carbon Steel                                                      |        |                         |
| Property Class | A2-70, A4-80 (ISO 3506-2) · 04, 05, 8, 10 (ISO 898-2)                              |        |                         |
| Surface Finish | Passivated, Plain, Zinc Plated, Hot Dip Galvanized, Dacromet, Blackened, Phosphate |        |                         |
| Size Range     | M3 - M48                                                                           | Thread | ISO metric coarse pitch |

### BASIS OF SPECIFICATION

WHICH STANDARD GOVERNS WHAT

|                                                     |                 |
|-----------------------------------------------------|-----------------|
| Carbon steel / Alloy steel mechanical properties to | ISO 898-2:2022  |
| Stainless steel mechanical properties to            | ISO 3506-2:2020 |
| Dimensions edition                                  | to be agreed    |

### PROPERTY CLASSES

REQUIRED VALUES PER ISO 3506-2

| Class | Governing property                                  | Source     |
|-------|-----------------------------------------------------|------------|
| A2-70 | Proof load - no tensile strength specified for nuts | ISO 3506-2 |
| A4-80 | Proof load - no tensile strength specified for nuts | ISO 3506-2 |

### PROPERTY CLASSES

REQUIRED VALUES PER ISO 898-2

| Class | Governing property                                  | Source    |
|-------|-----------------------------------------------------|-----------|
| 04    | Proof load - no tensile strength specified for nuts | ISO 898-2 |
| 05    | Proof load - no tensile strength specified for nuts | ISO 898-2 |
| 8     | Proof load - no tensile strength specified for nuts | ISO 898-2 |
| 10    | Proof load - no tensile strength specified for nuts | ISO 898-2 |

### DIMENSIONAL DATA - SIZES WE SUPPLY

ALL DIMENSIONS PER THE STANDARD

| d             | P                 | s (max)                 | e (min)                   | m               | Approx. Mass | d             | P                 | s (max)                 | e (min)                   | m               | Approx. Mass |
|---------------|-------------------|-------------------------|---------------------------|-----------------|--------------|---------------|-------------------|-------------------------|---------------------------|-----------------|--------------|
| Diameter - mm | Thread Pitch - mm | Width Across Flats - mm | Width Across Corners - mm | Nut Height - mm |              | Diameter - mm | Thread Pitch - mm | Width Across Flats - mm | Width Across Corners - mm | Nut Height - mm |              |
| M4            | 0.7               | 7                       | 7.66                      | 5               | 1            | M16           | 2                 | 24                      | 26.75                     | 16              | 34           |
| M5            | 0.8               | 8                       | 8.79                      | 5               | 1.4          | M20           | 2.5               | 30                      | 32.95                     | 20              | 65           |
| M6            | 1                 | 10                      | 11.05                     | 6               | 2.4          | M24           | 3                 | 36                      | 39.55                     | 24              | 100          |
| M8            | 1.25              | 13                      | 14.38                     | 8               | 5.1          | M30           | 3.5               | 46                      | 50.85                     | 30              | 212          |
| M10           | 1.5               | 17                      | 18.9                      | 10              | 10.6         | M36           | 4                 | 55                      | 60.79                     | 36              | 415          |
| M12           | 1.75              | 19                      | 21.1                      | 12              | 17.2         |               |                   |                         |                           |                 |              |

**FURTHER SIZES IN THIS STANDARD**

ALL DIMENSIONS PER THE STANDARD

Not held in stock. Available to order; minimum order quantity applies.

| <b>d</b><br>Diameter - mm | <b>P</b><br>Thread Pitch<br>- mm | <b>s (max)</b><br>Width Across<br>Flats - mm | <b>e (min)</b><br>Width Across<br>Corners - mm | <b>m</b><br>Nut Height -<br>mm | Approx. Mass | <b>d</b><br>Diameter - mm | <b>P</b><br>Thread Pitch<br>- mm | <b>s (max)</b><br>Width Across<br>Flats - mm | <b>e (min)</b><br>Width Across<br>Corners - mm | <b>m</b><br>Nut Height -<br>mm | Approx. Mass |
|---------------------------|----------------------------------|----------------------------------------------|------------------------------------------------|--------------------------------|--------------|---------------------------|----------------------------------|----------------------------------------------|------------------------------------------------|--------------------------------|--------------|
| <b>M3</b>                 | 0.5                              | 5.5                                          | 6.01                                           | 4                              | 0.5          | <b>M33</b>                | 3.5                              | 50                                           | 55.37                                          | 33                             | 317          |
| <b>M7</b>                 | 1                                | 11                                           | 12.12                                          | 7.5                            | 3            | <b>M39</b>                | 4                                | 60                                           | 66.44                                          | 39                             | 499          |
| <b>M14</b>                | 2                                | 22                                           | 24.49                                          | 14                             | 26           | <b>M42</b>                | 4.5                              | 65                                           | 72.09                                          | 42                             | 628          |
| <b>M18</b>                | 2.5                              | 27                                           | 29.56                                          | 18.5                           | 45           | <b>M45</b>                | 4.5                              | 70                                           | 76.95                                          | 45                             | 771          |
| <b>M22</b>                | 2.5                              | 32                                           | 35.03                                          | 22                             | 75           | <b>M48</b>                | 5                                | 75                                           | 82.6                                           | 48                             | 998          |
| <b>M27</b>                | 3                                | 41                                           | 45.2                                           | 27                             | 162          |                           |                                  |                                              |                                                |                                |              |

**MARKING**

Carbon steel / Alloy steel Head marking to ISO 898-2:2022

Stainless steel Head marking to ISO 3506-2:2020

Marking requirements are set by the material standard named above, not by the product standard. Confirm the ordered property class before production.

**INSPECTION DOCUMENTS WE CAN ISSUE**

|                                   |                                                                 |
|-----------------------------------|-----------------------------------------------------------------|
| EN 10204 3.1 material certificate | Can be included when agreed in the order.                       |
| Dimensional inspection report     | Can be provided for the agreed inspection scope.                |
| Certificate of conformity         | Can be issued against the confirmed order requirements.         |
| Mechanical test report            | Available when the required tests are agreed before production. |
| Chemical analysis report          | Available when the material verification scope is agreed.       |
| Coating inspection report         | Can record the coating checks agreed for the order.             |

**REFERENCES & NOTES**

Note: DIN 985 is a withdrawn legacy standard; the current standard for this product is ISO 10511. This sheet is built to DIN 985. Dimensions can differ between the two - check the recorded correspondence on our website before substituting one for the other.