

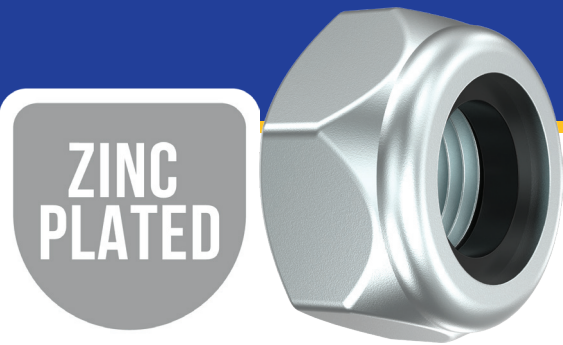
NYLON INSERT LOCK NUT  
CLASS 6 METRIC

APPLICATION

Bremick® nylon insert nuts are used in a wide range of applications to reduce loosening due to vibration and other factors. The nylon thread is cut upon application and produced friction. Not recommended for repeat use

PRODUCT ATTRIBUTES

|                        |                            |
|------------------------|----------------------------|
| Material Class:        | Carbon Steel Class 6       |
| Thread Form:           | Metric 6H                  |
| Finish:                | Zinc Plated                |
| Standard:              | Complies to DIN 985 1987   |
| Mechanical Properties: | Complies to ISO 898.2:2022 |
| Chemical Composition:  | Complies to ISO 898.2:2022 |



**MARKING**

Manufacturer Mark — Bottom View

Property Class — 6

In some cases, the Bremick marking will be replaced by the mark of the original manufacturer

MECHANICAL PROPERTIES

| DIAMETER (mm)                 |              | M5    | M6      | M8    | M10   | M12   | M14   | M16   | M18    | M20     | M24    | M27    | M30    | M33    | M36    | M39    |        |
|-------------------------------|--------------|-------|---------|-------|-------|-------|-------|-------|--------|---------|--------|--------|--------|--------|--------|--------|--------|
| PROOF LOAD (N)                |              | MIN   | 9500    | 13500 | 24900 | 39400 | 59000 | 80500 | 109900 | 138200  | 176400 | 254200 | 348800 | 426400 | 527400 | 620900 | 741800 |
| STRESS UNDER PROOF LOAD (MPa) |              | MIN   | 680     |       | 705   |       | 710   |       |        | 740     |        |        | 760    |        |        |        |        |
| HARDNESS                      | VICKERS (HV) | RANGE | 150-334 |       |       |       |       |       |        | 170-334 |        |        |        |        |        |        |        |

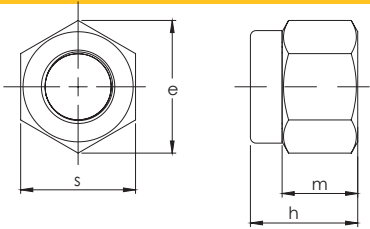
CHEMICAL COMPOSITION (%)

| MATERIAL     | C    |      | Mn   | P     | S    | TEMPERING TEMPERATURE °C |
|--------------|------|------|------|-------|------|--------------------------|
|              | MIN  | MAX  | MIN  | MAX   | MAX  | MIN                      |
| CARBON STEEL | 0.06 | 0.58 | 0.25 | 0.060 | 0.15 | -                        |

FINISH INFORMATION

| ZINC PLATED                                                                                                                                                                                      |                                                                                                                                                                        |                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| DESCRIPTION                                                                                                                                                                                      | OVERVIEW                                                                                                                                                               | CORROSION RESISTANCE |
| Zinc Plating is a process of depositing a thin layer of zinc onto the surface of a steel object through electroplating. The steel object is then passivated with a transparent conversion layer. | Bremick® Zinc Plated Coating provides a low level of corrosion protection and is recommended for dry internal application. Bremick® Zinc Plating complies with AS1789. | Low.                 |

DIMENSIONAL DATA (mm)



| DIAMETER<br>(mm) | ACROSS FLATS<br>(s) |       | ACROSS CORNERS<br>(e) |  | TOTAL HEIGHT<br>(h) |       | NUT HEIGHT<br>(m) |
|------------------|---------------------|-------|-----------------------|--|---------------------|-------|-------------------|
|                  | MIN                 | MAX   | MIN                   |  | MIN                 | MAX   | MIN               |
| 3                | 5.32                | 5.50  | 6.01                  |  | 3.70                | 4.00  | 2.40              |
| 4                | 6.78                | 7.00  | 7.66                  |  | 4.70                | 5.00  | 2.90              |
| 5                | 7.78                | 8.00  | 8.79                  |  | 4.70                | 5.00  | 3.20              |
| 6                | 9.78                | 10.00 | 11.05                 |  | 5.70                | 6.00  | 4.00              |
| 8                | 12.73               | 13.00 | 14.38                 |  | 7.64                | 8.00  | 5.50              |
| 10               | 16.73               | 17.00 | 18.90                 |  | 9.64                | 10.00 | 6.50              |
| 12               | 18.67               | 19.00 | 21.10                 |  | 11.57               | 12.00 | 8.00              |
| 14               | 21.67               | 22.00 | 24.49                 |  | 13.30               | 14.00 | 9.50              |
| 16               | 23.67               | 24.00 | 26.75                 |  | 15.30               | 16.00 | 10.50             |
| 18               | 26.16               | 27.00 | 29.56                 |  | 17.66               | 18.50 | 13.00             |
| 20               | 29.16               | 30.00 | 32.95                 |  | 18.70               | 20.00 | 14.00             |
| 22               | 31.00               | 32.00 | 35.03                 |  | 20.70               | 22.00 | 15.00             |
| 24               | 34.60               | 35.00 | 39.55                 |  | 22.70               | 24.00 | 15.00             |
| 27               | 41.00               | 40.00 | 45.20                 |  | 25.70               | 27.00 | 17.00             |
| 30               | 45.00               | 46.00 | 50.85                 |  | 28.70               | 30.00 | 19.00             |
| 36               | 53.80               | 55.00 | 60.79                 |  | 34.40               | 36.00 | 25.00             |
| 39               | 58.60               | 58.80 | 66.44                 |  | 37.40               | 39.00 | 27.00             |

SOCKET OR SPANNER SIZE (mm)

| BOLT DIAMETER | 3   | 4 | 5 | 6  | 8  | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 27 | 30 | 36 | 39 |
|---------------|-----|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| SPANNER SIZE  | 5.5 | 7 | 8 | 10 | 13 | 17 | 19 | 22 | 24 | 27 | 30 | 32 | 35 | 40 | 46 | 55 | 59 |

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