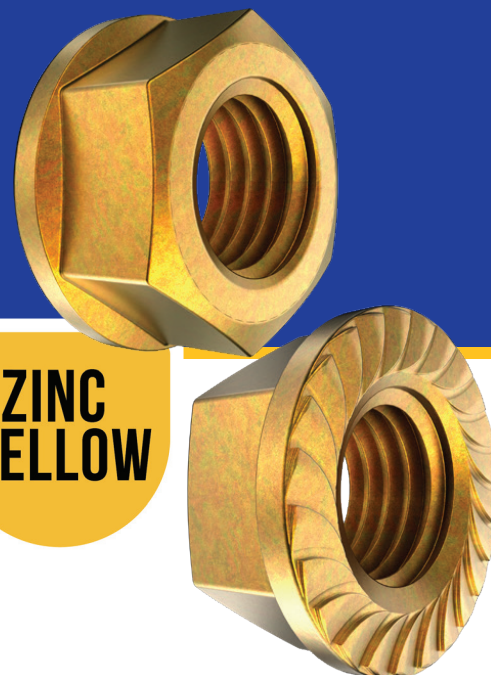


# FLANGE SERRATED LOCK NUT CLASS 6 METRIC



**ZINC  
YELLOW**

## APPLICATION

Bremick® Serrated Flange Nuts have a flanged surface which acts like a washer to distribute the clamp force over a bigger area. The serrations help resist loosening by biting into the material being clamped

## PRODUCT ATTRIBUTES

**Material Class:** Carbon Steel Class 6

**Thread Form:** 6H

**Finish:** Zinc Yellow Passivate

**Standard:** Complies to ISO 4161:2012

**Mechanical Properties:** Complies to ISO 898-2:2022

**Chemical Composition:** Complies to ISO 898-2:2022

## MECHANICAL PROPERTIES

| DIAMETER (mm)                 |              | M5    | M6      | M8    | M10   | M12   | M14   | M16   | M20    |         |
|-------------------------------|--------------|-------|---------|-------|-------|-------|-------|-------|--------|---------|
| PROOF LOAD (N)                |              | MIN   | 9500    | 13500 | 24900 | 39400 | 59000 | 80500 | 109900 | 176400  |
| STRESS UNDER PROOF LOAD (MPa) |              | MIN   | 680     |       | 705   |       | 710   |       |        | 740     |
| HARDNESS                      | VICKERS (HV) | RANGE | 150-334 |       |       |       |       |       |        | 170-334 |

## CHEMICAL COMPOSITION (%)

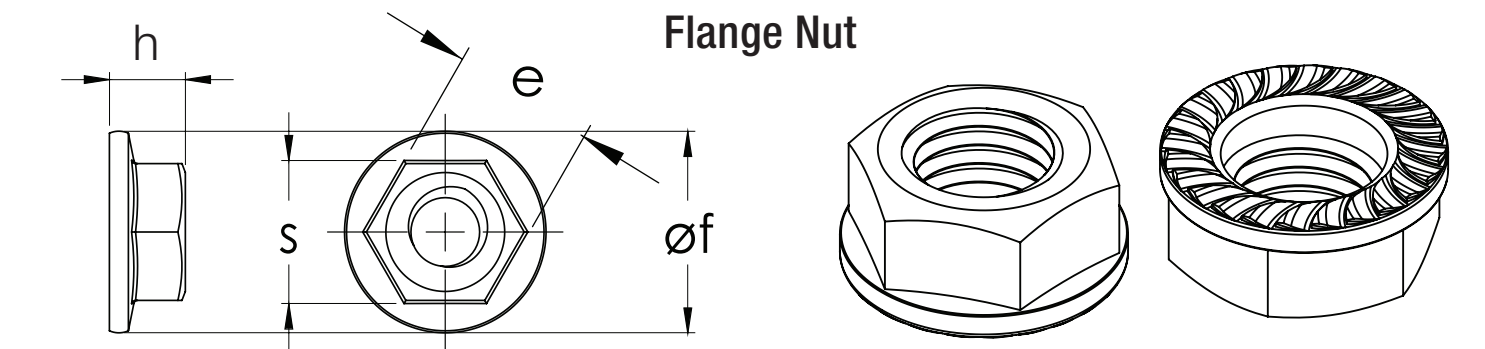
| MATERIAL     | C    |      | Mn   | P     | S    | TEMPERING TEMPERATURE °C |
|--------------|------|------|------|-------|------|--------------------------|
|              | MIN  | MAX  | MAX  | MAX   | MAX  | MIN                      |
| CARBON STEEL | 0.06 | 0.58 | 0.25 | 0.060 | 0.15 | -      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

## FINISH INFORMATION

### ZINC YELLOW PASSIVATE

| DESCRIPTION                                                                                                                                                                                          | OVERVIEW                                                                                                                                                                                    | CORROSION RESISTANCE |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| Zinc Yellow Passivate 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 yellow conversion layer. | Bremick® Zinc Yellow Passivate Coating provides a low level of corrosion protection and is recommended for dry internal application. Bremick® Zinc Yellow Passivation complies with AS1789. | Low.                 |

DIMENSIONAL DATA (mm)



| DIAMETER | PITCH<br>(mm) | ACROSS FLATS<br>(s) |       | ACROSS CORNERS<br>(e) | NUT THICKNESS<br>(h) |       | FLANGE DIAMETER<br>(f) |
|----------|---------------|---------------------|-------|-----------------------|----------------------|-------|------------------------|
|          |               | MIN                 | MAX   |                       | MIN                  | MAX   |                        |
| NOMINAL  | NOMINAL       |                     |       | MIN                   |                      |       | MAX                    |
| M5       | 0.80          | 7.78                | 8.00  | 8.79                  | 4.70                 | 5.00  | 11.8                   |
| M6       | 1.00          | 8.78                | 10.00 | 11.05                 | 5.70                 | 6.00  | 14.2                   |
| M8       | 1.25          | 12.73               | 13.00 | 14.38                 | 7.64                 | 8.00  | 17.9                   |
| M10      | 1.50          | 14.73               | 15.00 | 16.64                 | 9.64                 | 10.00 | 21.8                   |
| M12      | 1.75          | 17.73               | 18.00 | 20.03                 | 11.57                | 12.00 | 26.0                   |
| M14      | 2.00          | 20.67               | 21.00 | 23.36                 | 13.30                | 14.00 | 29.9                   |
| M16      | 2.00          | 23.67               | 24.00 | 26.75                 | 15.30                | 16.00 | 34.5                   |
| M20      | 2.50          | 29.16               | 30.00 | 32.95                 | 18.70                | 20.00 | 42.8                   |

SOCKET OR SPANNER SIZE (mm)

| NUT DIAMETER | M5 | M6 | M8 | M10 | M12 | M14 | M16 | M20 |
|--------------|----|----|----|-----|-----|-----|-----|-----|
| SPANNER SIZE | 8  | 10 | 13 | 15  | 18  | 21  | 24  | 30  |