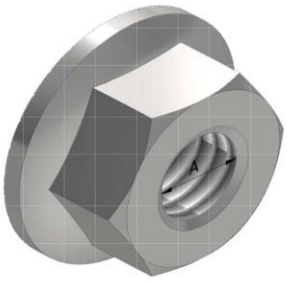
# Technical specifications

## SS-FN (Flanged nut DIN6923)




| Finishing: | Stainless steel 316 | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Product | Number | Height (mm) | Width (mm) | Length (mm) | Dim A (mm) | Fmax (kN) | Unit | Packaging (unit) |
| FN06-SS316 | 12786 | 0 | 6 | 0 | M6 | | ST | 200 |
| FN08-SS316 | 18301 | 0 | 8 | 0 | M8 | | ST | 200 |

### Mounting instructions:

-

### Load capacity:

Standard: -

Max. load: -

Load diagram: -

### Information:

Coupler: -

Equipotential bonding: IEC61537

EC declaration: EC directive 2014/35/EU (Low voltage) as modified by directive 93/68/EEC (CE marking)

### SS316

Stainless steel (1.4404) AISI 316L
Adding chrome(±13%) to the iron creates a certain sheen and the metal becomes more corrosion-resistant.
The advantage, compared to other protective coatings, is that it's not a one-off surface protection. In fact, the stainless steel (or rather the chrome) forms a thin, invisible layer of chromium oxide whenever it comes into contact with oxygen: the oxide flm.
This thin layer protects the underlying stainless steel from further corrosion (oxidation). If the oxide flm suffers damage, then the underlying stainless steel will be re-exposed to the oxygen in the air and the protective coat will re-form. In this way, it repairs itself whenever it gets damaged.
In certain circumstances or if the protective oxide flm is damaged, the corrosion can be locally quite rapid. This is caused, among other things, by chlorides or other materials (usually iron) that lodge in the surface. Due to this contamination, pitting corrosion
may occur that corrodes the stainless steel (SS). That's why, after the processing, the SS is treated, to remove all possible impurities. This is the `pickling' stage.
As mentioned above, a passive chromium layer protects the steel and repairs itself automatically. There are, however, circumstances in which this repair does not happen. Certain process steps may disrupt the balance in such a way that the passive state disappears and an active layer is formed. This could occur during process steps such as welding, bending or machining (with removal of metal or wood), giving rise to oxygen-poor pockets and the repair fails to materialise. Consequently, the rustproof properties are lost and, if exposed to gases or liquids, corrosion will occur.
To remedy this situation, the active layer is re-converted to a passive layer (this process is known as passivating). In is usually desirable to degrease the semi-fnished products and, after that, to pickle them in a mixture of nitric acid (HNO3) and hydrogen fluoride (HF), in order to remove impurities from the metal surface. This may be necessary on welded surfaces or on rotated objects for which a coolant is used.

## Field of application according to resistance against corrosion:

**Corrosion classes according EN ISO 12994**

| Corrosion class | Atmospheric corrosion | Indoor environment | Outdoor environment | Surface treatments |
|---|---|---|---|---|
| **C1** | <0,1µm | Heated buildings with neutral atmospheres: offices, shops, schools, hotels. | | **Electro-galvanised (EG) EN ISO 2081** |
| **C2** | 0,1 - 0,7µm | Unheated buildings where condensation may occur: sports halls, warehouses, shops. | Rural areas. Atmosphere with low impurities. | **Pre-galvanised (PG) EN 10327 – EN 10143** |
| **C3** | 0,7 - 2µm | Production facilities with high moisture levels and some air impurities due to industrial processes: production plants. | City and industrial atmosphere, some impurities, coastal areas with low salt loads. | **Dipped-galvanised (DG) EN ISO 1461** |
| **C4** | 2 - 4µm | Production facilities with high moisture levels and high air impurities due to industrial processes: swimming pools, Chemical industry. | Industrial areas and coastal areas with low salt load. | **Dipped-galvanised (DG) EN ISO 1461 Polyester coating ( CO) EN ISO 12944** |
| **C5-I** | 4 - 8µm | Polyester coating ( CO) | Industrial areas with high moisture level and aggressive atmosphere. | **Duplex (DU) (Dipped galvanised + Polyester coating) Stainless steel AISI 316L** |
| **C5-M** | 4 - 8µm | EN ISO 12944 | Coastal or offshore areas with salt load. | **Duplex (DU) (Dipped galvanised + Polyester coating)** |

**Classification for resistance against corrosion according to IEC61537**

| Class | Reference- Material and Finish |
|---|---|
| 0(a) | None |
| 1 | Electroplated to a minimum thickness of 5 µm |
| 2 | Electroplated to a minimum thickness of 12 µm |
| 3 | Pre-galvanised to grade 275 to EN 10327 and EN 10326 |
| 4 | Pre-galvanised to grade 350 to EN 10327 and EN 10326 |
| 5 | Post-galvanised to a zinc mean coating thickness (minimum) of 45 µm according to ISO 1461 for zinc thickness only |
| 6 | Post-galvanised to a zinc mean coating thickness (minimum) of 55 µm according to ISO 1461 for zinc thickness only |
| 7 | Post-galvanised to a zinc mean coating thickness (minimum) of 70 µm according to ISO 1461 for zinc thickness only |
| 8 | Post-galvanised to a zinc mean coating thickness (minimum) of 85 µm according to ISO 1461 for zinc thickness only (usually high silicon steel) |
| 9A | Stainless steel manufactured to ASTM: A 240/A 240M – 95a designation S30400 or EN 10088 grade 1-4301 without a post-treatment (b) |
| 9B | Stainless steel manufactured to ASTM: A 240/A 240M – 95a designation S31603 or EN 10088 grade 1-4404 without a post-treatment (b) |
| 9C | Stainless steel manufactured to ASTM: A 240/A 240M – 95a designation S30400 or EN 10088 grade 1-4301 with a post-treatment (b) |
| 9D | Stainless steel manufactured to ASTM: A 240/A 240M – 95a designation S31603 or EN 10088 grade 1-4404 with a post-treatment (b) |

(a) For materials which have no declared corrosion resistance classification.
(b) The post-treatment process is used to improve the protection against crevice crack corrosion and the contamination by other steels.