

TECHNICAL DATA SHEET (ALIGN)



PRODUCT DESCRIPTION

Our Grating and frame are functional, attractive and economical solution to exterior and interior drainage problem provides a dynamic and contemporary appearance to complement today's architectural spaces.

MATERIAL USED

Stainless Steel 316,304,430.

KEY FEATURES

- Good Corrosion Resistance.
- Rapid Drainage, 80 ltr/min.

DIMENSIONS

| Sr. No. | Description | Color | Length (±0.5mm) | Width (±0.5mm) | Thickness (±0.05mm) | Frame Height (±0.5mm) |
|---------|-------------|-------|--------------------|-------------------|------------------------|--------------------------|
| 1 | Frame | NO.4 | 200 | 200 | 1 | 4 |
| | Grating | | 171 | 171 | 2 | |

Note - Also available in pipe cut with 42mm Dia.

STAINLESS STEEL GRADE 316

PHYSICAL PROPERTIES

- Density g/cm³ : 7.90
- Hardness (HV5) : 200
- Safe Load Capacity (Kg) : 450

CHEMICAL PROPERTIES

- Superiorly Corrosion resistant.
- Acid resistant.
- Recommended to use in harsh environments.
- Heat resistance.

CHEMICAL COMPOSITION

| Chemical Composition | CAS No. | % Weight |
|----------------------|-----------|----------|
| ■ Carbon | 7440-44-0 | 0.022 |
| ■ Chromium | 7440-47-3 | 16.77 |
| ■ Iron | 7439-89-6 | 67.91 |
| ■ Manganese | 7439-96-5 | 1.761 |
| ■ Phosphorus | 7723-14-0 | 0.039 |
| ■ Silicon | 7440-21-3 | 0.359 |
| ■ Sulphur | 7704-34-9 | 0.0055 |
| ■ Nickel | 7440-02-0 | 10.24 |
| ■ Molybdenum | 7439-98-7 | 2.074 |
| ■ Aluminium | 7429-90-5 | 0.013 |
| ■ Cobalt | 7440-48-4 | 0.21 |
| ■ copper | 7440-50-8 | 0.403 |
| ■ Niobium | 7440-03-1 | 0.019 |
| ■ Titanium | 7440-32-6 | 0.0060 |
| ■ Vanadium | 7440-62-2 | 0.069 |
| ■ Tungsten | 7440-33-7 | 0.014 |
| ■ Tin | 7440-31-5 | 0.012 |
| ■ Arsenic | 7440-38-2 | 0.0075 |
| ■ Nitrogen | 7727-37-9 | 0.066 |

STAINLESS STEEL GRADE 304

PHYSICAL PROPERTIES

- Density g/cm³ : 7.90
- Hardness (HV5) : 220
- Safe Load Capacity (Kg) : 450

CHEMICAL PROPERTIES

- Standard Corrosion resistance
- Easy maintenance
- Not acid resistance

CHEMICAL COMPOSITION

| Chemical Composition | CAS No. | % Weight |
|----------------------|-----------|----------|
| ■ Carbon | 7440-44-0 | 0.065 |
| ■ Silicon | 7440-21-3 | 0.330 |
| ■ Manganese | 7439-96-5 | 1.030 |
| ■ Phosphorus | 7723-14-0 | 0.041 |
| ■ Sulphur | 7704-34-9 | 0.006 |
| ■ Chromium | 7440-47-3 | 18.250 |
| ■ Molybdenum | 7439-98-7 | 0.240 |
| ■ Nickel | 7440-02-0 | 8.240 |
| ■ Aluminium | 7429-90-5 | 0.0034 |
| ■ Cobalt | 7440-48-4 | 0.220 |
| ■ Copper | 7440-50-8 | 0.360 |
| ■ Niobium | 7440-03-1 | 0.0079 |
| ■ Titanium | 7440-32-6 | 0.004 |
| ■ Venadium | 7440-62-2 | 0.006 |
| ■ Tungsten | 7440-33-7 | 0.021 |
| ■ Tin | 7440-31-5 | 0.008 |
| ■ Arsenic | 7440-38-2 | 0.003 |
| ■ Boron | 7440-42-8 | 0.0007 |
| ■ Nitrogen | 7727-37-9 | 0.024 |
| ■ Iron | 7439-89-6 | 71.140 |

STAINLESS STEEL GRADE 430

PHYSICAL PROPERTIES

- Density g/cm³ : 7.90
- Hardness (HV5) : 175
- Safe Load Capacity (Kg) : 450

CHEMICAL PROPERTIES

- Good Corrosion resistance
- Not acid resistance

CHEMICAL COMPOSITION

| Chemical Composition | CAS No. | % Weight |
|----------------------|-----------|----------|
| ■ Carbon | 7440-44-0 | 0.080 |
| ■ Chromium | 7440-47-3 | 16.420 |
| ■ Iron | 7439-89-6 | 81.990 |
| ■ Manganese | 7439-96-5 | 0.680 |
| ■ Phosphorus | 7723-14-0 | 0.027 |
| ■ Silicon | 7440-21-3 | 0.290 |
| ■ Sulphur | 7704-34-9 | 0.004 |
| ■ Nickel | 7440-02-0 | 0.160 |
| ■ Molybdenum | 7439-98-7 | 0.014 |
| ■ Aluminium | 7429-90-5 | 0.080 |
| ■ Cobalt | 7440-48-4 | 0.031 |
| ■ Copper | 7440-50-8 | 0.097 |
| ■ Titanium | 7440-32-6 | 0.0037 |
| ■ Tungsten | 7440-33-7 | 0.004 |
| ■ Tin | 7440-31-5 | 0.004 |
| ■ Nitrogen | 7727-37-9 | 0.027 |
| ■ Arsenic | 7440-38-2 | 0.003 |
| ■ Venadium | 7440-62-2 | 0.081 |
| ■ Niobium | 7440-03-1 | 0.004 |
| ■ Boron | 7440-42-8 | 0.0003 |

STORAGE RECOMEDATION

Store in a cool well ventilated place in original packing. Open packing while going to be used.

NOTE

- Product is in compliance with substance of Very High Concern (SVHC) i.e. $\leq 0.1\%$ w/w as per the candidate list promulgated by the European Chemicals Agency (ECHA) which are defined in Article 57 of REACH Regulation (EC1907/2006) checked by Tuv-Nord Group.