

IN718

Nickel-based alloy ideal for high-temperature applications in aerospace & energy sectors

Key Features:

- > Excellent oxidation resistance
- > High tensile, fatigue, creep and rupture strength
- > Good ductility

Example Applications:

- > Turbine construction
- > Aircraft engine engineering
- > Chemical industry
- > Energy industry

[Technical Data]

General Properties

Mechanical **Properties**

(As built)

Mechanical Properties 1 (Heat treated)

| Density ISO3369 | ≥8.18 g/cm³ |
|-------------------------------------|-------------|
| Tensile Strength ISO6892-1 | ≥1060 MPa |
| Yield Strength ISO6892-1 | ≥720 MPa |
| Elongation after Fracture ISO6892-1 | ≥21 % |
| Vickers hardness ISO6507-1 | ≥280 HV5/15 |
| Tensile Strength ISO6892-1 | ≥1400 MPa |
| Yield Strength ISO6892-1 | ≥1120 MPa |
| Elongation after Fracture ISO6892-1 | ≥12 % |
| Vickers hardness ISO6507-1 | ≥410 HV5/15 |
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¹ For more information on heat treatment process, please contact us directly.

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