

# 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

**Part Density** ISO3369  $\geq 8.18 \text{ g/cm}^3$

### Mechanical Properties <sup>1</sup>

(Heat treated)

**Tensile Strength** ISO6892-1  $\geq 1320 \text{ MPa}$

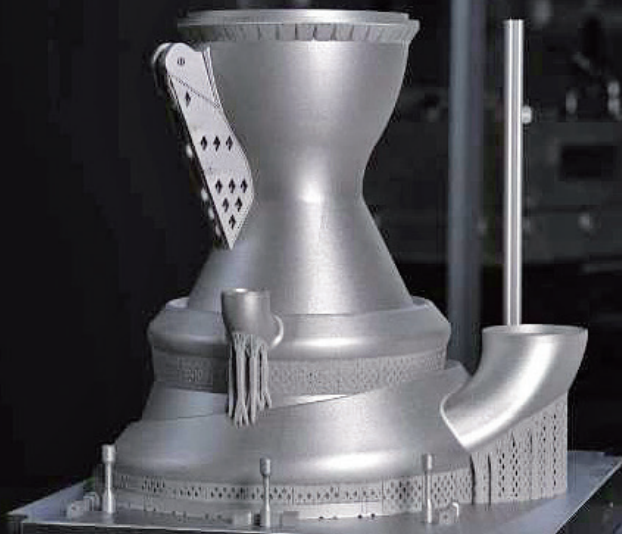
**Yield Strength** ISO6892-1  $\geq 1050 \text{ MPa}$

**Elongation after Fracture** ISO6892-1  $\geq 13 \%$

**Vickers hardness** ISO6507-1 / ISO6508-1  $\geq 42 \text{ HRC}$

<sup>1</sup> For more information on heat treatment process, please contact us directly. Farsoon systems are open material platform. For special materials such as tungsten, tantalum and pure copper, please contact us with your inquiries or requirements.

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Combustion Chamber of Rocket Engine

System: FS621M-4

Size: 600mm × 496mm × 558mm

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