

## Technical Data Sheet

# Inconel 718 Powder

**Product ID:** 2824264142221300PD001 / 2824264142221300PD002  
**Formular:** NiCrFeNbMoTiAl **Molecular weight:** /  
**CAS No.:** / **EINECS No.:** /  
**Color:** Gray to silver-gray  
**Description:** Inconel 718 powder offers high strength, excellent high-temperature performance, outstanding oxidation and corrosion resistance, and superior additive manufacturing processability.  
**Application:** Suitable for manufacturing complex, mission-critical components in the aerospace, high-temperature tooling, and energy industries.

**Product**

**Image:**



### 1. Physical Performance

Product ID	Particle Size	Apparent Density	Hall Flow Velocity
2824264142221300PD001	15-53 µm	≥ 4g/cm <sup>3</sup>	≤ 20s/50g
2824264142221300PD002	53-150 µm	≥ 4g/cm <sup>3</sup>	≤ 20s/50g
2824264142221300PDDZ	Customized	≥ 4g/cm <sup>3</sup>	≤ 20s/50g

### 2. Chemical compositions

Element	Chemical Compositions (%)						
	Ni	Cr	Mo	Al	Ti	Nb	Co
Typical Value	50-55	17-21	2.8-3.3	0.2-0.8	0.65-1.15	4.75-5.5	≤ 1
Element	P	Si	Mn	Cu	C	S	Fe
Typical Value	≤ 0.015	≤ 0.35	≤ 0.35	≤ 0.3	≤ 0.08	≤ 0.015	Bal

*Note: The purity values shown are calculated by subtracting the sum of selected measured elemental impurities from 100%. These values do not represent the result of a full elemental analysis.*

### **3. Packaging**

Bottle/Bag.

Double vacuum packed.

Customized packaging available upon request.

### **4. Period of Validity**

It is recommended to use this product within 12 months. If it is overdue, the product quality status should be re-evaluated.

### **5. Handling and Storage**

Handle in a clean, dry, and well-ventilated environment, avoiding moisture contamination and excessive dust generation.

Store in tightly sealed containers under dry, cool conditions, protected from moisture, contamination, and direct sunlight.

### **Contact Us**

Website: [www.vimaterial.de](http://www.vimaterial.de)

Email: [info@vimaterial.de](mailto:info@vimaterial.de)

Tel: 0049 1626484175

Add: Begener Straße 14., 30625 Hannover, Niedersachsen, Germany.