



**ADDIPOWDER**

Advanced Powders for Next-  
Generation Manufacturing

# MATERIAL DATA SHEET

High-Performance TA15 Titanium Alloy Powder

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# MATERIAL DATA SHEET

## TA15

### MATERIAL

AddiPowder's TA15 Titanium alloy powder is engineered for reliable performance in additive manufacturing, powder metallurgy and advanced forming technologies. Known for its exceptional strength-to-weight ratio, corrosion resistance, and biocompatibility, it is ideally suited for demanding applications in aerospace, medical, 3D printing and high-performance industrial components.

### CHEMICAL COMPOSITION (wt%)

Ti	Al	V	Zr	Mo	Si	Fe	C	O	N	H
Bal	5.50-7.10	0.80-2.50	1.50-2.50	0.50-2.00	≤0.015	≤0.25	≤0.08	≤0.15	≤0.05	≤0.015

### PHYSICAL PROPERTIES

Particle Size	15–53 μm
Size distribution	D10: ≥15 μm, D50: 30-40 μm, D90: ≤60 μm
Hall Flow Rate	≤38 s / 50 g
Bulk Density	≥2.3 g/cm <sup>3</sup>
Tap Density	≥2.7 g/cm <sup>3</sup>

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## MECHANICAL PROPERTIES

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Tensile Strength ( $\sigma_b$ /MPa)  $\geq 1050$

Yield Strength ( $\sigma_{p0.2}$ /MPa)  $\geq 1000$

Elongation at break ( $\delta_5$ /%)  $\geq 10$

## HEAT TREATMENT RECOMMENDATION

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800-850°C / 2h / FC

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