

## Technical Data Sheet

**Product Name:** Titanium Powder  
**Catalog No.:** TS1374  
**Standard:** ASTM B299  
**Particle Size:** -75  $\mu\text{m}$   
**Color:** Grey  
**Purity:**  $\geq 99.5\%$



### Specification

Powder Grade	Particle Size ( $\mu\text{m}$ )	D50	Apparent Density ( $\text{g}/\text{cm}^3$ )
CP-Ti	15-53	31	2.32
CP-Ti	45-106	60	2.33

### Chemical Composition (%)

Grade	Particle Size $\mu\text{m}$	Chemical Composition					
		Ti	Fe	O	C	N	H
CP-Ti	15-53	Bal.	$\leq 0.08$	$\leq 0.17$	$\leq 0.03$	$\leq 0.03$	$\leq 0.01$
	45-105	Bal.	$\leq 0.08$	$\leq 0.10$	$\leq 0.03$	$\leq 0.03$	$\leq 0.01$

### Titanium Metal Theoretical Properties

Properties	Unit	Value
Density	$\text{g}/\text{cm}^3$	4.51
Melting Point	$^{\circ}\text{C}$	1670
Modulus of Elasticity	$\text{kN}/\text{mm}^2$	105-120
Thermal Conductivity	$\text{W}/\text{m}\cdot\text{K}$	20
Elongation	%	18
Coefficient of Expansion (20 – 100 $^{\circ}\text{C}$ )	$\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	8.6
Yield Strength	MPa	379
Tensile Strength	MPa	448

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