



FACT SHEET

INHANCE[®] Ti-9000 Titanium Carbide

Product Description: INHANCE Ti-9000 consists of spherically shaped titanium carbide micro grains. This product is used to make other INHANCE polymer alloys. When incorporated in polymers, unique grades of high-performance polymeric composites are formed that have exceptional abrasion-resistance and wear performance. Frequently these composites have abrasion resistance greater than metal, as well as being light weight, non-corroding, and electrically non-conductive.

Grades Available:

- INHANCE Ti-9000

Applications: Ideal applications include machinery parts and mechanical components for severe-service mechanical or chemical environments, where repair/replacement of worn parts is very costly because of down time, and where optimal performance is needed. Examples include pump impellers, valve seats, piston rings, gears, seal rings, bearings, liners, wear-plates, guide-rails, as well as cable (protective jacketing), steel replacement parts, and high performance coatings.

Physical Characteristics: INHANCE Ti-9000 is a free flowing, dark gray, powder with the following general properties.

Particle size (average)	1.2-1.4 μ
Specific Gravity	4.9 -5.0
Bulk Density	1.1-1.2 g/cc 0.041 lb/in ³
TiC hardness	3,400 VHN

Standard Packaging:

40 lb. plastic pails with polybag insert

Call Sales for other sizes