PSM Industries Ferro-TiC® SK Impact Resistant Tool Steel

Category : Ceramic , Carbide , Metal , Ferrous Metal , Tool Steel , Shock-Resisting Steel

Material Notes:

Ferro-TiC® Steel alloy bonded titanium carbide (TiC) materials are made by advanced powder metallurgy technologies. Unlike tungsten carbide, Ferro-TiC® is bonded by hardenable alloy matrices.Excellent impact strength. Increased wear resistance over CM-25 and CHW-25. Replaces S-7 tool steel. Magnetic.Ferro-TiC® Unique CharacteristicsProvides the lightweight, size, stability, and hardnessVirtually porosity free - significantly better than the A1 ASTM B-276-79 StandardLow specific mass. Ferro-Tic® is 10-20% lighter than its steel counterpart and about 50% lighter than tungsten carbide10 times the wear resistance of tool steelsEconomical fabrication (conventionally machinable in the annealed stage by milling and turning, conventionally heat treatable to achieve high hardness)50-90% less linear size change in heat treat than tool steelsInformation Provided by Ferro-TiC®, a division of PSM Industries

Order this product through the following link:
http://www.lookpolymers.com/polymer_PSM-Industries-Ferro-TiC-SK-Impact-Resistant-Tool-Steel.php

Physical Properties	Metric	English	Comments
Density	6.80 g/cc	0.246 lb/in³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	38	38	Annealed
	62	62	Hardened
Flexural Strength	1550 MPa	225000 psi	Transverse Rupture
Compressive Strength	2630 MPa	381000 psi	
Charpy Impact Unnotched	7.386 J/cm²	35.17 ft-lb/in²	

Thermal Properties	Metric	English	Comments
CTE, linear	10.6 µm/m-°C @Temperature 21.1 - 538 °C	5.89 µin/in-°F @Temperature 70.0 - 1000 °F	
Maximum Service Temperature, Air	538 °C	1000 °F	

Descriptive Properties	Value	Comments
Carbide (Vol. %)	35	
Linear Size Change Thru Heat Treat %	0.034	
Thermal Shock (No. Cycles)	100	

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