

## PSM Industries Ferro-TiC® CHW-45 Hot Work Tool Steel

Category : Ceramic , Carbide , Metal , Ferrous Metal , Tool Steel , Hot Work 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. Ferro-TiC® Unique Characteristics Provides the lightweight, size, stability, and hardness Virtually porosity free - significantly better than the A1 ASTM B-276-79 Standard Low specific mass. Ferro-TiC® is 10-20% lighter than its steel counterpart and about 50% lighter than tungsten carbide 10 times the wear resistance of tool steels Economical 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 steels Information 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-CHW-45-Hot-Work-Tool-Steel.php](http://www.lookpolymers.com/polymer_PSM-Industries-Ferro-TiC-CHW-45-Hot-Work-Tool-Steel.php)

Physical Properties	Metric	English	Comments
Density	6.45 g/cc	0.233 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	45	45	Annealed
	64	64	Hardened

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	538 °C	1000 °F	

Descriptive Properties	Value	Comments
Carbide (Vol. %)	45	

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