

## Meehanite GE-30 Flake Graphite Cast Iron

Category : Metal , Ferrous Metal , Cast Iron , Gray Cast Iron

### Material Notes:

Type GE-30 combines improved strength and solidity with higher machining feeds and speeds than ordinary gray iron. General Meehanite information - Meehanite metal is first melted to a definite degree of undercooling or constitution which is related to the section of the casting to be poured and the range of physical properties such as tensile strength and hardness required. Nucleation with patented mixtures of graphitizing agents results in the removal of undercooling, in the controlled precipitation of graphite and in a fine grained eutectic cell structure which determines the density and physical integrity of the casting. Ordinary cast irons made to chemical specifications which do not include the benefit of controlled undercooling are influenced by mass effect to a maximum degree and for this and other reasons cannot be considered an equivalent to Meehanite metal. Information provided by Meehanite Marketing Association.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Meehanite-GE-30-Flake-Graphite-Cast-Iron.php](http://www.lookpolymers.com/polymer_Meehanite-GE-30-Flake-Graphite-Cast-Iron.php)

Physical Properties	Metric	English	Comments
Specific Gravity	7.06 g/cc	7.06 g/cc	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	<= 160	<= 160	Nominal
Tensile Strength, Ultimate	207 MPa	30000 psi	
Tensile Strength, Yield	79.3 MPa	11500 psi	.01% permanent set
Modulus of Elasticity	89.6 GPa	13000 ksi	
Modulus of Rupture	0.421 GPa	61.0 ksi	
Compressive Strength	827 MPa	120000 psi	
Poissons Ratio	0.27	0.27	
Fatigue Strength	93.1 MPa	13500 psi	
Machinability	38 %	38 %	Dalcher
Shear Modulus	38.3 GPa	5550 ksi	
Shear Strength	207 MPa	30000 psi	
Izod Impact Unnotched	8.13 - 16.3 J @Diameter 20.3 mm	6.00 - 12.0 ft-lb @Diameter 0.798 in	

Thermal Properties	Metric	English	Comments
	12.4 Åµm/m-Å°C	6.90 Åµin/in-Å°F	

CTE linear Thermal Properties	Metric @ Temperature 37.8 - 538 Å°C	English @ Temperature 100 - 1000 Å°F	Comments
	41.8 W/m-K	290 BTU-in/hr-ftÅ²-Å°F	
Thermal Conductivity	@Temperature 10.0 - 232 Å°C	@Temperature 50.0 - 450 Å°F	
Shrinkage	0.80 - 1.0 %	0.80 - 1.0 %	Patternmaker Shrinkage

## Contact Songhan Plastic Technology Co.,Ltd.

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