

Meehanite GF-20 Flake Graphite Cast Iron

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

Material Notes:

Type GF-20 is designed principally for high machinability and is used where ultimate strength is not an important factor. 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-GF-20-Flake-Graphite-Cast-Iron.php

Physical Properties	Metric	English	Comments
Specific Gravity	6.80 g/cc	6.80 g/cc	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	150	150	Nominal
Tensile Strength, Ultimate	138 MPa	20000 psi	
Tensile Strength, Yield	65.5 MPa	9500 psi	.01% permanent set
Modulus of Elasticity	62.1 GPa	9000 ksi	
Compressive Strength	621 MPa	90000 psi	
Poissons Ratio	0.24	0.24	
Fatigue Strength	75.8 MPa	11000 psi	
Machinability	30 %	30 %	Dalcher
Shear Modulus	27.6 GPa	4000 ksi	
Shear Strength	148.6 MPa	21550 psi	
Izod Impact Unnotched	5.42 - 12.2 J @Diameter 20.3 mm	4.00 - 9.00 ft-lb @Diameter 0.798 in	

Thermal Properties	Metric	English	Comments
Shrinkage	0.80 %	0.80 %	Patternmaker Shrinkage

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