

Meehanite Ductliron® SP-80 Nodular Graphite Ductile Iron

Category : Metal , Ferrous Metal , Cast Iron , Alloy Cast Iron , Ductile Iron

Material Notes:

Type SP-80 possesses in the as-cast condition more than twice the strength of conventional gray cast iron in combination with exceptional toughness. It has a predominantly pearlitic structure, is readily machinable and responds easily to surface hardening by chill casting or by flame or electric induction heat treatment. 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-Ductliron-SP-80-Nodular-Graphite-Ductile-Iron.php

Physical Properties	Metric	English	Comments
Specific Gravity	7.20 g/cc	7.20 g/cc	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	200	200	Nominal
Tensile Strength, Ultimate	552 - 689 MPa	80000 - 100000 psi	
Tensile Strength, Yield	414 - 517 MPa	60000 - 75000 psi	
Elongation at Break	3.0 - 10 %	3.0 - 10 %	
Modulus of Elasticity	172 GPa	25000 ksi	
Poissons Ratio	0.37	0.37	
Fatigue Strength	269 MPa	39000 psi	Endurance Limit (Unnotched)
Shear Modulus	62.8 GPa	9110 ksi	Calculated

Thermal Properties	Metric	English	Comments
Shrinkage	1.3 %	1.3 %	Patternmaker Shrinkage

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China