

Meehanite Ductliron® SH-100 Nodular Graphite Ductile Iron

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

Material Notes:

Type SP-100 is characterized by its exceptional hardenability. It is particularly suited where high strengths are desired in relatively heavy casting sections. In the as-cast condition it has a pearlitic structure. Any hardness value may be obtained, ranging from that of a free machinable iron to that of the fully hardenable tool steel. SH-100 oil quenched from 1650°F and drawn at 750°F results in good combination of harness, strength and toughness. 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-SH-100-Nodular-Graphite-Ductile-Iron.php

Physical Properties	Metric	English	Comments
Specific Gravity	7.22 g/cc	7.22 g/cc	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	207 - 600	207 - 600	Nominal
Tensile Strength, Ultimate	689 - 1170 MPa	100000 - 170000 psi	
Tensile Strength, Yield	483 - 896 MPa	70000 - 130000 psi	
Elongation at Break	1.0 - 5.0 %	1.0 - 5.0 %	
Modulus of Elasticity	165 GPa	24000 ksi	
Poissons Ratio	0.37	0.37	
Fatigue Strength	296 MPa	43000 psi	Endurance Limit (Unnotched)
Shear Modulus	60.2 GPa	8730 ksi	Calculated

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

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