

Meehanite HS Heat Resisting Cast Iron

Category : Metal , Ferrous Metal , Cast Iron

Material Notes:

Type HS compares very favorably from a strength standpoint with any heat resisting metal. Compositional adjustments are made to suit the exact service conditions. It machines easily and provides maximum resistance to scaling growth. Recommended for blast furnace parts, hot gas valves, doors, frames, annealing pots. 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-HS-Heat-Resisting-Cast-Iron.php

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	200	200	Nominal
Tensile Strength, Ultimate	414 - 689 MPa	60000 - 100000 psi	
Elongation at Break	2.0 - 10 %	2.0 - 10 %	
Modulus of Elasticity	159 GPa	23000 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	12.6 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	7.00 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 37.8 - 538 $\text{Å}^\circ\text{C}$	@Temperature 100 - 1000 $\text{Å}^\circ\text{F}$	
Maximum Service Temperature, Air	982 $\text{Å}^\circ\text{C}$	1800 $\text{Å}^\circ\text{F}$	

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