

Meehanite HSV Heat Resisting Cast Iron

Category : Metal , Ferrous Metal , Cast Iron

Material Notes:

Type HSV is an iron developed essentially for engineering parts subjected to long continuous heating. It has been designed to have the maximum load bearing ability. 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-HSV-Heat-Resisting-Cast-Iron.php

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	200	200	Nominal
Tensile Strength, Ultimate	689 - 827 MPa	100000 - 120000 psi	
Elongation at Break	2.0 - 10 %	2.0 - 10 %	
Modulus of Elasticity	169 GPa	24500 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	12.1 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$	6.74 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 37.8 - 538 $\text{Å}^\circ\text{C}$	@Temperature 100 - 1000 $\text{Å}^\circ\text{F}$	
Thermal Conductivity	40.1 W/m-K	278 BTU-in/hr-ft $\text{Å}^2\cdot\text{Å}^\circ\text{F}$	
	@Temperature 10.0 - 232 $\text{Å}^\circ\text{C}$	@Temperature 50.0 - 450 $\text{Å}^\circ\text{F}$	
Maximum Service Temperature, Air	871 $\text{Å}^\circ\text{C}$	1600 $\text{Å}^\circ\text{F}$	long continuous heating

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