

Meehanite Almanite[®] WS Wear and Abrasion Resisting Cast Iron

Category : Metal , Ferrous Metal , Cast Iron , White Cast Iron , Martensitic

Material Notes:

Type WS is a hard wearing martensitic iron with exceptional impact strength...not readily machinable...work hardens in service to high hardness values. Type WS is recommended for crusher jaws, impact hammers, pulverizers, etc. 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-Almanite-WS-Wear-and-Abrasion-Resisting-Cast-Iron.php

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	400 - 525	400 - 525	Nominal
Tensile Strength, Ultimate	414 - 552 MPa	60000 - 80000 psi	
Tensile Strength, Yield	345 - 448 MPa	50000 - 65000 psi	
Elongation at Break	2.0 - 4.0 %	2.0 - 4.0 %	
Modulus of Elasticity	165 GPa	24000 ksi	
Izod Impact Unnotched	<= 244 J @Diameter 30.5 mm	<= 180 ft-lb @Diameter 1.20 in	bar

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