

Meehanite Almanite[®] W4 Wear and Abrasion Resisting Cast Iron

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

Material Notes:

Type W4 is an austenitic-martensitic white iron characterized by high hardness and relatively good impact strength. Type W4 is highly alloyed to provide an austenitic matrix in the as-cast condition which may be further modified to give martensitic matrix by heat treatment or by freezing. 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-W4-Wear-and-Abrasion-Resisting-Cast-Iron.php

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	400 - 700	400 - 700	Nominal
Tensile Strength, Ultimate	414 - 552 MPa	60000 - 80000 psi	
Izod Impact Unnotched	54.2 - 94.9 J @Diameter 30.5 mm	40.0 - 70.0 ft-lb @Diameter 1.20 in	bar

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