

Meehanite Ductliron® AQS Nodular Graphite Ductile Iron

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

Material Notes:

Type AQS is an air hardening metal possessing high strength, toughness and hardness. It may be fully air quenched throughout casting section after machining to a wide range of strength and hardness values that are uniform with little or no risk of cracking or distortion. It has high endurance strength and provides an excellent degree of abrasion resistance. 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-AQS-Nodular-Graphite-Ductile-Iron.php

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	225 - 500	225 - 500	Nominal
Tensile Strength, Ultimate	552 - 1240 MPa	80000 - 180000 psi	
Tensile Strength, Yield	483 - 965 MPa	70000 - 140000 psi	
Elongation at Break	1.0 - 3.0 %	1.0 - 3.0 %	
Modulus of Elasticity	172 GPa	25000 ksi	
Fatigue Strength	365 MPa	53000 psi	Endurance Limit (Unnotched)

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

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