

Meehanite AQ Flake Graphite Cast Iron

Category : Metal , Ferrous Metal , Cast Iron , Gray Cast Iron

Material Notes:

Type AQ is a wear and abrasion resisting iron that is readily machinable as-cast but may be "air-hardened" after machining with minimum risk of cracking or distortion. Type AQ is easily heat treated and locally hardened. Recommended for dies, punches, spinning mandrels and other hard wearing applications. 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-AQ-Flake-Graphite-Cast-Iron.php

Physical Properties	Metric	English	Comments
Specific Gravity	7.34 g/cc	7.34 g/cc	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	280 - 550	280 - 550	Nominal
Tensile Strength, Ultimate	345 - 448 MPa	50000 - 65000 psi	
Tensile Strength, Yield	172 MPa	25000 psi	.01% permanent set
Modulus of Elasticity	152 GPa	22000 ksi	
Modulus of Rupture	0.641 GPa	93.0 ksi	
Compressive Strength	1380 MPa	200000 psi	
Poissons Ratio	0.33	0.33	
Fatigue Strength	207 MPa	30000 psi	
Machinability	52 %	52 %	Dalcher
Shear Modulus	65.5 GPa	9500 ksi	
Izod Impact Unnotched	40.7 - 54.2 J	30.0 - 40.0 ft-lb	
	@Diameter 20.3 mm	@Diameter 0.798 in	

Thermal Properties	Metric	English	Comments
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Thermal Properties <small>CTE, linear</small>	12.1 Åum/m-Å°C Metric	6.75 Åuin/in-Å°F English	Comments
	@Temperature 37.8 - 538 Å°C	@Temperature 100 - 1000 Å°F	
Shrinkage	1.3 - 1.5 %	1.3 - 1.5 %	Patternmaker Shrinkage

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China