

United Cast Bar Unibar 350 Continuously Cast Iron

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

Material Notes:

Unibar 350 is a special grade alloyed to achieve the properties, giving excellent wear resistance, strength & heat-treatment response, while still possessing reasonable machinability and producing a good surface finish. Noise and vibration damping are good in this grade. Unibar-350 can be hardened by conventional methods, to Rc 50 on the bar surface. Information provided by United Cast Bar Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_United-Cast-Bar-Unibar-350-Continuously-Cast-Iron.php

Physical Properties	Metric	English	Comments
Density	7.30 g/cc	0.264 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	230 - 300	230 - 300	10 mm ball
	@Load 3000 kg	@Load 6610 lb	
Tensile Strength	225 MPa	32600 psi	
	@Diameter 150 - 300 mm	@Diameter 5.91 - 11.8 in	
	250 MPa	36300 psi	
	@Diameter 80.0 - 150 mm	@Diameter 3.15 - 5.91 in	
	280 MPa	40600 psi	
	@Diameter 40.0 - 80.0 mm	@Diameter 1.57 - 3.15 in	
	315 MPa	45700 psi	
	@Diameter 20.0 - 40.0 mm	@Diameter 0.787 - 1.57 in	

Component Elements Properties	Metric	English	Comments
Carbon, C	2.95 - 3.45 %	2.95 - 3.45 %	
Iron, Fe	92.58 - 94.21 %	92.58 - 94.21 %	as balance
Manganese, Mn	0.60 - 0.80 %	0.60 - 0.80 %	
Phosphorous, P	0.10 - 0.20 %	0.10 - 0.20 %	
Silicon, Si	2.1 - 2.9 %	2.1 - 2.9 %	
Sulfur, S	0.040 - 0.070 %	0.040 - 0.070 %	

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