

United Cast Bar Unibar 300 Continuously Cast Iron

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

Material Notes:

Unibar 300 is alloyed to achieve the properties, giving excellent wear resistance, strength & heat-treatment response, while still possessing reasonable machinability and an excellent surface finish. Noise and vibration damping are excellent in this grade. Unibar 300 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-300-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	190 - 260	190 - 260	10 mm ball
	@Load 3000 kg	@Load 6610 lb	
Tensile Strength	195 MPa	28300 psi	
	@Diameter 150 - 300 mm	@Diameter 5.91 - 11.8 in	
	210 MPa	30500 psi	
	@Diameter 80.0 - 150 mm	@Diameter 3.15 - 5.91 in	
	240 MPa	34800 psi	
	@Diameter 40.0 - 80.0 mm	@Diameter 1.57 - 3.15 in	
	270 MPa	39200 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	92.63 - 94.26 %	92.63 - 94.26 %	as balance
Manganese, Mn	0.55 - 0.75 %	0.55 - 0.75 %	
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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