

United Cast Bar Unibar 250 Continuously Cast Iron

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

Material Notes:

Offers a good combination of strength and wear resistance, while still possessing good machinability and produces excellent surface finishes. Noise and vibration damping are excellent in this grade. Unibar 250 is not recommended for hardening applications and heat treatment. Information provided by United Cast Bar Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_United-Cast-Bar-Unibar-250-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	160 - 230	160 - 230	10 mm ball
	@Load 3000 kg	@Load 6610 lb	
Tensile Strength	155 MPa	22500 psi	
	@Diameter 150 - 300 mm	@Diameter 5.91 - 11.8 in	
	170 MPa	24700 psi	
	@Diameter 80.0 - 150 mm	@Diameter 3.15 - 5.91 in	
	195 MPa	28300 psi	
	@Diameter 40.0 - 80.0 mm	@Diameter 1.57 - 3.15 in	
	225 MPa	32600 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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