

United Cast Bar Unibar 600-3 Continuously Cast Spheroidal Graphite Iron

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

Material Notes:

Offers reasonable machinability and excellent surface finish combined with higher wear resistance, strength & heat treatment. Noise and vibration damping are good in this grade. Unibar 600-3 can be hardened by conventional methods, to Rc 50 on the bar surface, responds well to austempering (ADI). Information provided by United Cast Bar Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_United-Cast-Bar-Unibar-600-3-Continuously-Cast-Spheroidal-Graphite-Iron.php

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

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	200 - 270	200 - 270	10 mm ball
	@Load 3000 kg	@Load 6610 lb	
Tensile Strength	550 MPa	79800 psi	
	@Diameter 105 - 200 mm	@Diameter 4.13 - 7.87 in	
	550 MPa	79800 psi	
	@Diameter 205 - 600 mm	@Diameter 8.07 - 23.6 in	
	600 MPa	87000 psi	
	@Diameter 25.0 - 50.0 mm	@Diameter 0.984 - 1.97 in	
	600 MPa	87000 psi	
	@Diameter 55.0 - 100 mm	@Diameter 2.17 - 3.94 in	
Tensile Stress	340 MPa	49300 psi	
	@Diameter 105 - 200 mm, Strain 0.200 %	@Diameter 4.13 - 7.87 in, Strain 0.200 %	
	340 MPa	49300 psi	
	@Diameter 205 - 600 mm, Strain 0.200 %	@Diameter 8.07 - 23.6 in, Strain 0.200 %	
	360 MPa	52200 psi	
	@Diameter 55.0 - 100 mm,	@Diameter 2.17 - 3.94 in,	

Mechanical Properties	Strain 0.200 % Metric	Strain 0.200 % English	Comments
	370 MPa	53700 psi	
	@Diameter 25.0 - 50.0 mm, Strain 0.200 %	@Diameter 0.984 - 1.97 in, Strain 0.200 %	
Elongation at Break	1.0 %	1.0 %	
	@Thickness 105 - 200 mm	@Thickness 4.13 - 7.87 in	
	1.0 %	1.0 %	
	@Thickness 205 - 600 mm	@Thickness 8.07 - 23.6 in	
	2.0 %	2.0 %	
	@Thickness 55.0 - 100 mm	@Thickness 2.17 - 3.94 in	
	3.0 %	3.0 %	
	@Thickness 25.0 - 50.0 mm	@Thickness 0.984 - 1.97 in	

Component Elements Properties	Metric	English	Comments
Carbon, C	3.25 - 3.7 %	3.25 - 3.7 %	
Iron, Fe	92.83 - 94.19 %	92.83 - 94.19 %	as balance
Magnesium, Mg	0.040 - 0.070 %	0.040 - 0.070 %	
Manganese, Mn	0.10 - 0.30 %	0.10 - 0.30 %	
Phosphorous, P	0.015 - 0.080 %	0.015 - 0.080 %	
Silicon, Si	2.4 - 3.0 %	2.4 - 3.0 %	
Sulfur, S	0.0050 - 0.020 %	0.0050 - 0.020 %	

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