

United Cast Bar Unibar 700-2 Continuously Cast Spheroidal Graphite Iron

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

Material Notes:

Offers higher wear resistance; strength & heat-treatment response while still possessing reasonable machinability and excellent surface finish. Noise and vibration damping are good in this grade. Unibar 700-2 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-700-2-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	230 - 305	230 - 305	10 mm ball
	@Load 3000 kg	@Load 6610 lb	
Tensile Strength	660 MPa	95700 psi	
	@Diameter 105 - 200 mm	@Diameter 4.13 - 7.87 in	
	660 MPa	95700 psi	
	@Diameter 205 - 600 mm	@Diameter 8.07 - 23.6 in	
	700 MPa	102000 psi	
	@Diameter 25.0 - 50.0 mm	@Diameter 0.984 - 1.97 in	
	700 MPa	102000 psi	
	@Diameter 55.0 - 100 mm	@Diameter 2.17 - 3.94 in	
Tensile Stress	380 MPa	55100 psi	
	@Diameter 105 - 200 mm, Strain 0.200 %	@Diameter 4.13 - 7.87 in, Strain 0.200 %	
	380 MPa	55100 psi	
	@Diameter 205 - 600 mm, Strain 0.200 %	@Diameter 8.07 - 23.6 in, Strain 0.200 %	
	400 MPa	58000 psi	
	@Diameter 55.0 - 100 mm,	@Diameter 2.17 - 3.94 in,	

Mechanical Properties	Strain 0.200 % Metric	Strain 0.200 % English	Comments
	420 MPa	60900 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 25.0 - 50.0 mm	@Thickness 0.984 - 1.97 in	
	2.0 %	2.0 %	
	@Thickness 55.0 - 100 mm	@Thickness 2.17 - 3.94 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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