

United Cast Bar Unibar 400-15 Fully Annealed Continuously Cast Spheroidal Graphite Iron

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

Material Notes:

Offers superior machinability combined with good impact, fatigue, electrical conductivity and magnetic permeability. Noise and vibration damping are good in this grade. Unibar 400-15 is not recommended for Hardening and Tempering. Information provided by United Cast Bar Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_United-Cast-Bar-Unibar-400-15-Fully-Annealed-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	130 - 180	130 - 180	10 mm ball
	@Load 3000 kg	@Load 6610 lb	
Tensile Strength	370 MPa	53700 psi	
	@Diameter 105 - 200 mm	@Diameter 4.13 - 7.87 in	
	370 MPa	53700 psi	
	@Diameter 205 - 600 mm	@Diameter 8.07 - 23.6 in	
	390 MPa	56600 psi	
	@Diameter 55.0 - 100 mm	@Diameter 2.17 - 3.94 in	
	400 MPa	58000 psi	
	@Diameter 25.0 - 50.0 mm	@Diameter 0.984 - 1.97 in	
Tensile Stress	240 MPa	34800 psi	
	@Diameter 105 - 200 mm, Strain 0.200 %	@Diameter 4.13 - 7.87 in, Strain 0.200 %	
	240 MPa	34800 psi	
	@Diameter 205 - 600 mm, Strain 0.200 %	@Diameter 8.07 - 23.6 in, Strain 0.200 %	
	250 MPa	36300 psi	
	@Diameter 25.0 - 50.0	@Diameter 0.984 - 1.97	

Mechanical Properties	Metric mm, Strain 0.200 %	English in, Strain 0.200 %	Comments
	250 MPa	36300 psi	
	@Diameter 55.0 - 100 mm, Strain 0.200 %	@Diameter 2.17 - 3.94 in, Strain 0.200 %	
Elongation at Break	11 %	11 %	
	@Thickness 105 - 200 mm	@Thickness 4.13 - 7.87 in	
	11 %	11 %	
	@Thickness 205 - 600 mm	@Thickness 8.07 - 23.6 in	
	14 %	14 %	
	@Thickness 55.0 - 100 mm	@Thickness 2.17 - 3.94 in	
	15 %	15 %	
	@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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