

## Dura-Bar G2A Continuously Cast Gray Iron Bar Stock ASTM A48

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

**Material Notes:**

Dura-Bar G2A has Type D graphite in a predominantly pearlitic matrix. The fine graphite structure allows excellent surface finish and is normally used in permanent mold applications requiring optimal strengths and wear resistance. The microstructure will contain Type VII, type D, size 6-8, graphite as defined in ASTM A247. The matrix is predominantly pearlite. The rim will be similar to the center. Chill carbides will be less than 5% in any field at 100x and will be well dispersed. G2A Dura-Bar can be oil quench hardened from 1600F (870C) to a minimum hardness of 50 Rc on the outside of the bar. The inside diameter hardness will be less than 50 Rc. Lower quench hardnesses on the inside diameters are a result of larger graphite flakes and not a loss of matrix hardness. Composition: Typical chemical composition and ranges, actual values depend on cross section size. Information provided by Dura-Bar.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Dura-Bar-G2A-Continuously-Cast-Gray-Iron-Bar-Stock-ASTM-A48.php](http://www.lookpolymers.com/polymer_Dura-Bar-G2A-Continuously-Cast-Gray-Iron-Bar-Stock-ASTM-A48.php)

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	248 - 311	248 - 311	
Tensile Strength, Ultimate	276 MPa	40000 psi	
Shear Strength	207 MPa	30000 psi	

Component Elements Properties	Metric	English	Comments
Carbon, C	2.6 - 3.75 %	2.6 - 3.75 %	
Manganese, Mn	0.20 - 0.40 %	0.20 - 0.40 %	
Phosphorous, P	<= 0.12 %	<= 0.12 %	
Silicon, Si	2.0 - 3.0 %	2.0 - 3.0 %	
Sulfur, S	<= 0.02500 %	<= 0.02500 %	

Descriptive Properties	Value	Comments
Endurance Ratio	0.5	
Heat-Treat Response (Rc)	55-60	
Relative Damping Capacity	250	Natural log of rate of successive amplitude.
Relative Wear Resistance	Fair	

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