

## Dura-Bar G1A Continuously Cast Gray Iron Bar Stock ASTM A48

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

### Material Notes:

Dura-Bar G1A has Type D graphite in a predominantly ferrite matrix. This specification was originally developed for the glass mold industry where a fine grain structure and superior machining finish are needed. Dimensional growth due to repeated heating and cooling cycles is minimal due to the smaller graphite flake size and ferritic matrix structure. The microstructure will contain Type VII, type D, size 6-8, graphite as defined in ASTM A247. The matrix is predominantly ferrite. Chill carbides will be less than 5% in any field at 100x and will be well dispersed. G1A is not intended for hardening. The matrix structure may be softened slightly by heating to 1400°F (760°C) and furnace cooling to 400°F (205°C). 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-G1A-Continuously-Cast-Gray-Iron-Bar-Stock-ASTM-A48.php](http://www.lookpolymers.com/polymer_Dura-Bar-G1A-Continuously-Cast-Gray-Iron-Bar-Stock-ASTM-A48.php)

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	143 - 229	143 - 229	Depends on cast section size and location of test
Tensile Strength, Ultimate	172 MPa	25000 psi	
Fatigue Strength	68.9 MPa	10000 psi	

Component Elements Properties	Metric	English	Comments
Carbon, C	2.6 - 3.75 %	2.6 - 3.75 %	
Manganese, Mn	0.10 - 0.35 %	0.10 - 0.35 %	
Phosphorous, P	<= 0.12 %	<= 0.12 %	
Silicon, Si	2.3 - 3.0 %	2.3 - 3.0 %	
Sulfur, S	<= 0.02500 %	<= 0.02500 %	

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