MA35B High Leaded Brass

Introduction

MA35B is a high-leaded brass with machinability rating of 90, moderate strength, and capacity for cold work. The alloy is used in applications requiring a combination of machining and forming operations, without annealing. Examples of use include parts with swaged, flared, knurled, or other formed features, including components with crimping requirement.

To learn more please contact our sales department.

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MA35B High Leaded Brass

Chemical Composition - Limits	Chemical Composition - Nominal
Cu 61-63 (99.5 min incl named elements)	Cu 62.0
Pb 1.6-2.5	Pb 2.0
Zn rem	Zn 36.0
Fe 0.15 max	

Specifications
ASTM B453
EN 12164
EN 12166

Fabrication Index	
Soldering	5 - Excellent
Hot Worked	2 - Fair
Cold Worked	3 - Good
Brazing	4 - Very Good
Machinability	5 - Excellent

Physical Properties

Annealing Range (Min)	800 °F
Annealing Range (Max)	1100 °F
Density	0.306 lb/in³
Electrical Resistivity (Annealed)	39.9 Ω·cir-mil/ft @ 68 °F
Electrical Conductivity (Annealed)	26% IACS @ 68 °F
Thermal Conductivity	67 Btu/ft²/ft·hr/°F @ 68 °F
Coefficient of Thermal Expansion	11.3 per °F (68-572 °F)
Modulus of Elasticity (Tension)	15 ksi
Modulus of Rigidity (Tension)	5 ksi
Melting Point (Solidus)	1,750 °F
Melting Point (Liquidus)	1,920 °F

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Round Wire - Pretempered

TEMPER NAME	TEMPER CODE	TENSILE STRENGTH (ksi) Min	TENSILE STRENGTH (ksi) Max	YIELD STRENGTH, 0.5% EUL (ksi) Min	MILL LIMITS (inch)	ELONGATION (%) 1" GL
Annealed	O60	46.0		16.0	.01 - .2362	20.0
1/4 Hard	H01	52.0	65.0	25.0	.01 - .2362	7.00
1/4 Hard + SR	HR01	52.0	65.0	25.0	.01 - .2362	7.00
1/2 Hard	H02	57.0	80.0	25.0	.01 - .2362	4.00

Round Rod - Pretempered

TEMPER NAME	TEMPER CODE	TENSILE STRENGTH (ksi) Min	TENSILE STRENGTH (ksi) Max	YIELD STRENGTH, 0.5% EUL (ksi) Min	MILL LIMITS (inch)	ELONGATION (%) 1" GL
Annealed	O60	46.0		16.0	.0625 - .250	20.0
1/4 Hard	H01	52.0	65.0	25.0	.0625 - .250	10.0
1/4 Hard + SR	HR01	52.0	65.0	25.0	.0625 - .250	10.0
1/2 Hard	H02	57.0	80.0	25.0	.0625 - .250	7.00

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