



Belmont
M E T A L S I N C .

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DATA SHEET

BELMONT ART CASTER'S BRASS ALLOY

46316 – 46317 – 46321

Belmont Art Caster's Brass is a yellow brass alloy that has been modified for the needs of art and jewelry casters. While preserving the bright golden color of regular yellow brass the Art Casters version melts cleaner with less fume, and it has better fluidity for easy casting.

Melting Range	1625 - 1650°F.
Pouring Range	1700 - 1900°F.
Density	0.30 lbs per cubic inch
Specific Gravity	8.4
Pattern Makers Shrinkage	3/16" per foot
Machinability vs. free cutting brass	80%

CASTING: Molds should be gated as for regular yellow brass castings, but with slightly more feeding because of the narrow solidification range.

Melting should be rapid and under slightly oxidizing furnace conditions.

As there are deoxidizers and fluidizers present in the alloy, melting fluxes nor metallurgical additions are normally not required.

STRESS RELIEVING: The alloy will not respond to solution heat treatment or precipitation hardening.

It can be stress relieved by heating to 500°F. (260°C.,) for one hour per inch of section followed by cooling in air.

SOLDERING, BRAZING, AND WELDING: Soldering, brazing, and welding are accomplished by following procedure for Aluminum Bronze and Manganese bronze alloys.

FORMS AVAILABLE: 20 lb Foundry Ingot, 2 Section 5 lb Ingot, Cut Bars – approx 3/4" wide x 1/2." thick x 2" long, unpolished and polished irregular shot.

BB-1A

Belmont: The Non Ferrous Specialists
For maximum variety in non ferrous metals, alloys, formulations, and shapes.
Custom shapes and compositions available.