



Belmont
M E T A L S I N C .

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DATA SHEET

BELMONT ART CASTER'S BRASS ALLOY 46316

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° F to 1650° F
Pouring Range	1700° F to 1900° F
Density	.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 neutral or slightly oxidizing furnace conditions.

As there are deoxidizers and fluidizers present in the alloy usually neither melting fluxes nor metallurgical additions are needed.

STRESS RELIEVING:

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

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

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

SOLDERING:

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, approximately $\frac{3}{4}$ “ wide x $\frac{1}{2}$ “ thick x 2” long (available from stock).

Shorter lengths can be made on special order.