



**Belmont**  
M E T A L S I N C .

330 Belmont Avenue, Brooklyn, New York 11207

Phone: 718-342-4900 · FAX: 718-342-0175

Email: [mail@belmontmetals.com](mailto:mail@belmontmetals.com)

Website: [www.belmontmetals.com](http://www.belmontmetals.com)

**DATA SHEET**

## **BELMONT 10% TITANIUM COPPER MASTER ALLOY**

Belmont's 10% Titanium Copper Master Alloy is designed to allow the addition of Titanium to be made to a melt at more reasonable temperatures than would be required if pure Titanium were used.

The general procedure is to melt the primary metals (or alloys) and deoxidize the melt using any of the commercial deoxidizers or with Belmont's **2% Jewelers Grade Boron Copper** polished shot, following the products instructions. The metal has to be deoxidized so that the Titanium alloys with the metal, rather than oxidizing and going off in the dross.

After deoxidizing, the 10% Titanium Copper can be added, in the amount calculated to give the desired Titanium content. It should be noted that some losses may occur, depending on the temperature, success of the deoxidation step and other process variables. Only experience can determine what the recovery will be.

The 10% Titanium Copper pieces should be plunged and held beneath the surface until they melt, since this is a light alloy and has a tendency to float and oxidize on the surface.

### **FORMS AVAILABLE:**

1" X 6" X 12" SLAB, ½" to ¾" pieces

### **CHEMISTRY:**

|          |               |      |          |
|----------|---------------|------|----------|
|          | %             |      | %        |
| COPPER   | BALANCE       | LEAD | .08 MAX. |
| TITANIUM | 9.50 – 10.50% | TIN  | .10 MAX  |
| IRON     | .15 MAX       |      |          |

### **MELTING POINT:**

1825°F to 1875°F

**Belmont The Non Ferrous Specialists**

**For maximum variety in non-ferrous metals, alloys, formulations and shapes.**

**Custom shapes and compositions available**