

<b>PRODUCT CODE</b>	<b>OT 6733</b>
<b>TYPE</b>	<b>BRASS</b>
<b>COLOR</b>	<b>LIGHT YELLOW</b>



#### Brief description

Brass for mechanical works, OT 6733 can be used as it is, to produce wire and plates, or as pre-master alloy, for the production of jewellery.  
OT 6733 is nickel-free.

#### Suitable applications

Plates&Sheets	Solid Chains	Hollow Chains	Soldered Tubes	CNC Works	Open Casting	Closed Casting	Wax Setting
■ ■ ■ ■ □ □	■ ■ ■ ■ □ □	■ □ □ □ □ □	■ ■ □ □ □ □	■ ■ □ □ □ □	□ □ □ □ □ □	□ □ □ □ □ □	□ □ □ □ □ □

#### Proprieties

<b>Composition</b>	Cu 67 Zn33	Commercial composition of the alloy
<b>Density</b>	8.4	(g/cm <sup>3</sup> )
<b>Melting Range</b>	880-940	Solidus - Liquidus (°C)
<b>Hardness</b>	65-N.A.	Annealed - Hardened (HV)

#### Mould casting

Heat the metal 50-100°C more than Liquidus temperature, while protecting the melting with a reducing flame or keeping it in protective atmosphere. Heat the mould at 150-200°C and, when the melting temperature is reached, stir the metal and pour it in the mould; after casting, open the mould and cool the metal immediately.

#### Mechanical work

For the best mechanical results, reduce the section of the wire or plate at least of 50% before proceeding with the annealing process. The first reduction steps should be strong enough to ensure the metal inner part compacting.

#### Annealing

Heat the metal in protective atmosphere at 660°C for 10-30min (depending on the quantity), then quickly cool it in a solution of 90% water and 10% alcohol or in warm water (≈40°C).

#### Hardening

Not suitable.

#### Pickling

Sulfuric acid (H<sub>2</sub>SO<sub>4</sub>) at 10% concentration and 50-60°C can be used to remove surface oxide. Rinse with attention the metal after pickling.

#### Scraps reuse

Up to 50% scraps can be added to the melting. Always pay attention to the cleanliness of the scraps, de-greasing and pickling before adding them to new metal is suggested.