

PRODUCT CODE	OT 9010
TYPE	BRASS
COLOR	PINK-YELLOW



Brief description

Brass for mechanical works, OT 9010 can be used as it is, to produce wire and plates, or as pre-master alloy, for the production of jewellery.
OT 9010 is nickel-free.

Suitable applications

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

Composition	Cu90 Zn10	Commercial composition of the alloy
Density	8.8	(g/cm ³)
Melting Range	1040-1060	Solidus - Liquidus (°C)
Hardness	70-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 (H₂SO₄) 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.