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| PRODUCT CODE | OT 80C |
| TYPE | SPECIAL BRASS |
| COLOR | LIGHT YELLOW |



Brief description

Brass for casting, light yellow colour, OT 80C can be used in open or closed casting systems, with or without pre-mounted stones.
 Hardness of casted items cannot be increased with heat treatment.
 OT 80C 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

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| Composition | Cu80 Zn20 | Commercial composition of the alloy |
| Density | 8.4 | (g/cm ³) |
| Melting Range | 900-950 | Solidus - Liquidus (°C) |
| Hardness | 85-/- | Annealed - Hardened (HV) |

Casting

Cylinders' temperature should be 500-700°C, based on casted items' size and models' intricacy. Casting temperature is 50-120°C higher than the liquidus temperature. After casting wait 15-20 min before cooling the metal in warm water (≈40°C), in case of wax setting of stones, wait from 30 to 45 minutes before cooling the flasks in warm water.

Annealing

Heat the metal in protective atmosphere at 650°C for 15-20 min, 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 15-30% 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, removal of the sprue button is suggested. Always pay attention to the cleanliness of the scraps, pickling before adding them to new metal is suggested.