

GENERAL INFORMATION
General information

Typology	Brass
Color	Yellow
Color shade	Greenish yellow
Production process	All-purpose
Grain refinement level	Minimum
Deoxidation level	Minimum

Commercial composition (%)

CU	67.0
ZN	33.0

Melting Temperatures

Solidus [°C]	880.0
Liquidus [°C]	940.0
Melting range [°C]	60.0

FULL CHARACTERIZATION DATA
Color coordinates

L *	a*	b*	c*	Yellow Index
88.5	-1.4	27.6	27.6	

Mechanical characteristics

As cast hardness [HV 0.2]	65.0
Hardness after 70% area red. [HV 0.2]	235.0
Hardness after annealing [HV 0.2]	75.0
Tensile strength (Rm) [Mpa]	305.0
Yield strength (Rp0.2) [MPa]	71.0
Elongation at rupture (A) [%]	47.0

Physical characteristics

Density [g/cm³]	8.4
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General characteristics

As cast grain size [µm]	480.0
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Product applications

Ingot casting
Wire production
Sheet production

CASTING PROCESSING PARAMETERS
Pre-melting temperature

Temperature [°C]

POURING TEMPERATURES

	Flask from [°C]	Flask to [°C]	Metal from [°C]	Metal to [°C]
< 0.5 mm	660	720	1030	1060
0.5 - 1.2 mm	580	650	1010	1030
> 1.2 mm	460	600	990	1010

Trees without stones

Let the flask cool down for 5 minutes, then quench it in water.

Stone-in-place casting trees

Let the flask cool down for 30-45 minutes, then quench it in water.

Pickling

Dip in RADIAL solution (50 g/l conc. at 60°C) for 2 minutes, or in sulphuric acid (10% concentration at 50°C) for 5 minutes.

MECHANICAL WORKING PARAMETERS
Pre-melting temperature

Temperature [°C]

Reductions

Wire - diameter (%)	45.0
Sheet - area or thickness (%)	70.0

POURING TEMPERATURES	Countinous from [°C]	Countinous to [°C]	Ingot to [°C]	Ingot from [°C]
Temperatures	1040	1120	1020	1060

MECHANICAL WORKING ANNEALING	Temp. from [°C]	Temp. to [°C]	Time [min]
< 1 mm	660	700	25
1 - 5 mm	660	700	30
> 5 mm	660	700	35

Mechanical working quenching

Quench directly in water.