

**MASTER
ALLOY**
YA22U 875‰

ALL-PURPOSE MASTER ALLOY FOR 375-585-750-917‰ (9-14-18-22 KT) YELLOW GOLD

GENERAL INFORMATION
General information

Typology	Master alloy for gold
Color	Yellow
Color shade	Pinkish yellow
Production process	All-purpose
Grain refinement level	Medium
Deoxidation level	Low

Commercial composition (%)

CU	85.0
ZN	9.0
AG	5.5

Melting Temperatures

Solidus [°C]	900.0
Liquidus [°C]	925.0

FULL CHARACTERIZATION DATA
Color coordinates

L *	a*	b*	c*	Yellow Index
84.3	8.1	22.8		

Mechanical characteristics

As cast hardness [HV 0.2]	100.0
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Physical characteristics

Density [g/cm ³]	16.5
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Product applications

Continuous casting
 Ingot casting
 Casting in closed systems
 Casting without stones
 Handmade production
 Massive chain production
 Wire production
 Sheet production
 Stamping production

CASTING PROCESSING PARAMETERS
Pre-melting temperature

Temperature [°C] 1045

POURING TEMPERATURES

	Flask from [°C]	Flask to [°C]	Metal from [°C]	Metal to [°C]
< 0.5 mm	650	680	1025	1055
0.5 - 1.2 mm	650	680	1000	1025
> 1.2 mm	650	680	980	1000

Trees without stones

Let the flask cool down for 10-15 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 concentration at 60°C) for 5-10 minutes, or in sulphuric acid (10% concentration at 50°C) for 10 minutes.