

## **TECHNICAL SHEET**

# C182N 750‰

MASTER ALLOY FOR CASTING OF 750% (18 KT) YELLOW GOLD

### **GENERAL INFORMATION**

General information	
Color	Yellow
Typology	Master alloy for gold
Color shade	Light yellow
Production process	Casting
Melting temperatures	
Liquidus [°C]	910.0
Solidus [°C]	860.0
Melting range [°C]	50.0

Commercial composition		
Silver (%)	58,00	
Copper (%)	39,00	
Zinc (%)	3,00	



# **GOLD** line

## **FULL CHARACTERIZATION DATA**

Color coordinates	
L*	87.9
a*	2.6
b*	23.5
c*	23.7
General characteristics	
As cast grain size [µm]	300.0

Mechanical characteristics	
As cast hardness [HV 0.2]	130.0
Hardness after annealing [HV 0.2]	140.0
Hardness after 70% area red. [HV 0.2]	200.0
Single step age-hardening hardness [HV 0.2]	195.0
Tensile strength (Rm) [Mpa]	352.0
Yield strength (Rp0.2) [MPa]	249.0
Elongation at rupture (A) [%]	44.0

Product applications	
Casting in open systems	
Age-hardening	
Stone-in-place casting	
Casting in closed systems	
Casting without stones	

Related Produ	ucts
LSG406B	Master alloy for soldering of 750‰ (18 Kt) yellow gold
LSG409V	Master alloy for soldering of 750‰ (18 Kt) yellow gold
Alternative Pr	roducts
C182D	Master alloy for casting of 750‰ (18 Kt) yellow gold
C182N1	Master alloy for casting of 750‰ (18 Kt) yellow gold

**RELATED PRODUCTS LIST** 



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### **CASTING PROCESSING PARAMETERS**

Pre-mixing temperature [°C] 1030.0

CASTING TEMPERATURES	Flask from [°C]	Flask to [°C]	Metal from [°C]	Metal to [°C]	
< 0.5 mm	660.0	720.0	1010.0	1040.0	
0.5 - 1.2 mm	580.0	650.0	990.0	1010.0	
> 1.2 mm	460.0	600.0	970.0	990.0	
Trace without stance					

#### Trees without stones

Let the flask cool down for 10-15 minutes, then quench in water.

### Stone-in-place casting trees

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

### **Pickling**

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

### AGE HARDENING PROCESSING PARAMETERS

SINGLE STEP AGE-HARDENING TREATMENT	Temperature [°C]	Time [min]	Quenching
Age-hardening	250.0	90.0	Air or in furnace