

## **TECHNICAL SHEET**

## WA1481T 375‰

MASTER ALLOY FOR MECHANICAL WORKING OF 375-585-750% (9-14-18 KT) WHITE GOLD

### **GENERAL INFORMATION**

General information			
Color	White		
Color shade	Standard white		
Production process	Mechanical working		
Typology	Master alloy for gold		
Melting temperatures			
Solidus [°C]	960.0		
Melting range [°C]	95.0		
Liquidus [°C]	1055.0		

Commercial composition			
Copper (%)	70,00		
Nickel (%)	13,00		
Zinc (%)	17,00		



# **GOLD** line

### **FULL CHARACTERIZATION DATA**

Color coordinates	
L*	84.5
a*	0.9
b*	10.4
C*	10.4
Yellow index	21.8
General characteristics	
As cast grain size [µm]	230.0

Mechanical characteristics	
As cast hardness [HV 0.2]	115.0
Hardness after annealing [HV 0.2]	130.0
Hardness after 70% area red. [HV 0.2]	285.0
Tensile strength (Rm) [Mpa]	465.0
Yield strength (Rp0.2) [MPa]	228.0
Elongation at rupture (A) [%]	36.0

**RELATED PRODUCTS LIST** 

Product applications
Wire production
TIG tube production
CNC and lathe production
TIG tube production
Cladding production
Hollow chain production
Production of tube from continuous casting
Sheet production
Continuous casting
Ingot casting

# Related Products

FE5	Iron wire, 5.0 mm diameter, annealed
L1A	Powder for soldering of gold and silver
	chains
LSB442	Nickel-free master alloy for soldering of
	375‰ (9 Kt) white gold
LSB475A	Master alloy for soldering of 750‰ (18 Kt)
	white gold
LSG409D	Master alloy for soldering of 585‰ (14 Kt)
	yellow gold
LSG409V	Master alloy for soldering of 750‰ (18 Kt)
	yellow gold

### **Alternative Products**

NI1811-04	Low nickel release master alloy for
	mechanical working of 750‰ (18 Kt) white
	gold
NI1811-05	Low nickel release master alloy for

mechanical working of 585‰ (14 Kt) white gold



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MECHANICAL WORKING PARAMETERS			
Pre-mixing temperature [°C] 1175.0	Reductions		
	Sheet - area or thickness (%) 70.0		
	Wire - diameter (%) 45.0		

POURING TEMPERATURES	Countinous from [°C]	Countinous to [°C]	Ingot from [°C]	Ingot to [°C]
Temperatures	1155.0	1235.0	1135.0	1175.0

MECHANICAL WORKING ANNEALING	Temp. from [°C]	Temp. to [°C]	Time [min]
<1 mm	660.0	700.0	30.0
1 - 5 mm	660.0	700.0	35.0
>5 mm	660.0	700.0	40.0
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#### Mechanical working quenching

Let cool in air down to 550°C, then quench in a 50% water/50% alcohol solution or in water