7/8/2015 Procons2



MASTER ALLOY DIVISION

WA1481T Master alloy for mechanical working of

Technical datasheet and guideline for 9 Kt

GENERAL INFORMATION AND RECOMMENDED APPLICATIONS

Typology	Master alloy for gold	
Production	Mechanical working	
process	meenamear working	
Color	White	

Color	Standard white
Density [g/cm³]	10.8
Melting	Solidus [°C] 960
temperatures	Liquidus [°C] 1055
As cast hardness	115
[HV 0.2]	115

Product applications

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

FULL CHARACTERIZATION DATA

General				
characteristics				
As cast grain size [μm]	230			
Color coordinates				
L*	84.5			
a*	0.9			
b*	10.4			
C*	10.4			
Color shade	Standard			
COIDI SHAUE	white			

Mechanical	
characteristics	
Tensile strength (Rm) [MPa]	465
Yield strength (Rp0.2) [MPa]	228
Elongation at rupture (A) [%]	36
As cast hardness [HV 0.2]	115
Hardness after 70% area	285
red. [HV 0.2]	
Hardness after annealing	130
[HV 0.2]	
Hardness after age-	120
hardening [HV 0.2]	120

CASTING PROCESSING PARAMETERS

Pre-mixing temperature	[°C]			
	Metal - from	 Flask - from		

Casting temperatures | Metal - to [°C] | Flask - to [°C]

MECHANICAL WORKING PARAMETERS

Pre-mixing temperature [°C]

Casting	Metal from [°C]	Metal - to [°C]	
temperature	Wetai - Hom [C]		
Ingot making	1135	1175	
Continuous casting	1155	1235	

Reccomended		
reductions		
Sheet - area or	70	
thickness [%]	70	
Wire - diameter [%]	45	

Mechanical working recommended annealing	Temperature - from [°C]	Temperature - to [°C]	Time [min]
> 5 mm	660	700	40
1 - 5 mm	660	700	35
< 1 mm	660	700	30



LEGOR GROUP S.p.A. - Via del Lavoro, 1 - 36050 Bressanvido (VI) Italy - tel. +39 0444 467911 - fax +39 0444 660677- info@legor.com - www.legorgroup.com