

TECHNICAL SHEET

OR134L 750‰

GENERAL INFORMATION

General information		Commercial compos	
Туроlоду	Master alloy for gold	CU	
Color	Red	AG	
Color shade	Red	ZN	
Production process	All-purpose		
Grain refinement level	Medium		
Deoxidation level	Minimum		
Melting Temperatures			
Solidus [°C]	905.0		
Liquidus [°C]	920.0		

FULL CHARACTERIZATION DATA

Color coordinates			Mechanical characteristics			
L*	a*	b*	С*	Yellow Index	As cast hardness [HV 0.2]	185.0
86.8 9.6 15.4 18.1	10 1		Single step age-hardening hardness [HV 0.2]	330.0		
		Tensile strength (Rm) [Mpa]	507.0			
					Yield strength (Rp0.2) [MPa]	368.0
					Elongation at rupture (A) [%]	30.0

Physical characteristics	
Density [g/cm³]	14.7
General characteristics	
As cast grain size [µm]	75.0

Product applications

Continuous casting Casting in closed systems Casting without stones CNC and lathe production Massive chain production Wire production Sheet production Stamping production Blanking production TIG tube production

> Page 1 of 3 1 LEGOR GROUP S.P.A. - Via del Lavoro, 1 - 36050 (VI) - Italy - Tel. +39 0444 467911 - Fax +39 0444 660677 - info@legor.com - www.legor.com

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GOLD line

CASTING PROCESSING PARAMETERS

Pre-melting temperature				
Temperature [°C] 1040		0		
POURING TEMPERATURES	Flask from [°C]	Flask to [°C]	Metal from [°C]	Metal to [°C]
< 0.5 mm	660	720	1020	1050
0.5 - 1.2 mm	580	650	1000	1020
> 1.2 mm	460	600	980	1000

Trees without stones

Take out the flask within 1 minute from pouring, and quench it directly in water.

Stone-in-place casting trees

Remove the flask immediately from the machine. Dip only the bottom part of the tree in cold water and keep under ventilation for 15 minutes. Quench in warm 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				Reduction	าร		
Temperature [°C]		1040			ameter (%) Irea or thickness (%)	45.0 70.0	
POURING TEMPERATURES	Countinous from [°C	Count	inous to [°C]	Ingot to [°C]	Ingot from [°C]		
Temperatures	1020	1	100	1000	1040		
MECHANICAL WORKING ANI	NEALING Ter	mp. from [°C]	Temp. to [°C]	Time	[min]		
< 1 mm		620	660	2	5		
1 - 5 mm		620	660	3	0		
> 5 mm		620	660	3	5		

Mechanical working quenching

Quench directly in 50%/50% water/alcohol solution or in water.

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AGE HARDENING PROCESSING PARAMETERS

SINGLE STEP	Temperature [°C]	Time [min]	Quenching	
AGE HARDENING	250.0	90.0	In air or in furnace	

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