## **TECHNICAL SPECIFICATIONS**

## Heraeus

Alloy Code: H-9570A Colour: White

Suitable Karatage: 8/10K

Content: Nickel: 0.0% Palladium: 0.0%

**Silver:** 72.6% **Platinum:** 0.0%

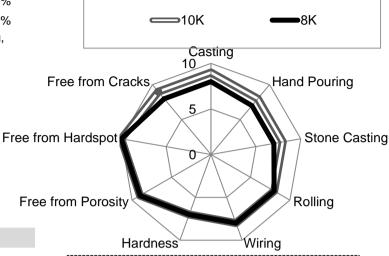
**Applications:** Suitable for loss wax casting, stone casting,

hand-making

Advantages: Palladium & Nickel free, low melting point

Melting Range (°C):

8K	796 - 800
10K	825 - 829



**CIELAB Value:** a\* **Karat** YI:D1925 L\* b\* 87.5 11.5 8K 22.6 -2.814.0 10K 24.0 90.1 -3.5

Score(1--10)

1 means less likely to occur or not suitable

10 means most likely to occur or most suitable

Mechanical	Properties :				
Karat	Annealed Hardness (HV)	As Casted Hardness (HV)	Max. Strength (MPa)	Yield Strength (MPa)	Elongation (%)
8K	145	145	347	182	27
10K	142	143	377	188	16

Recomm	nended Casting Parameters	:	(Quenching Time	15 - 25	Minutes)
	Metal		Vacuum-assisted Casting		
	Casting		Investment Temperati	ıre (ºC)	
Karat	Temperature		Thickness of work pied	e (mm)	
	(°C)	Thin (<0.5)	Medium (0.5~1.1)	Thick (>1.1)	
8K	920-940	640-720	560-640	450-560	
10K	930-950	640-720	560-640	450-560	

## **Recommended Mechanical Working Parameters:**

Recommended	Annealing Temperature (°C)	Annealing Time for thickness (min)	< 1 mm	1 - 5 mm	> 5 mm
H-9570A	600 - 650		30	35	40

Process	Casting Temperature (°C)	Recommended Reductions
Ingot	960 - 980	Sheet Thickness % 70
Continuous Casting	1000 - 1060	Wire Diameter % 45

## **Technical Advice:**

- 1. To avoid oxidation, the alloys must be covered with inert gas or yellow flame during casting.
- 2. Not more than 50 % of old material should be used for recasting.
- 3. The old material must be tumbled to remove the investment powder residue and oxides.
- The material is then pickled in dilute sulfuric acid (15 %) for 15 20 minutes to remove the rest of oxides.
- 4. The sprue should be placed at the thickest position. Additional sprue must be applied if necessary. Fluted sprue is preferred to avoid any turbulence.

Remarks: The information is for your reference only. The parameters should be adjusted according to the particular casting conditions. If you have any technical questions, please do not hesitate to contact us.

