## **TECHNICAL SPECIFICATIONS**



Alloy Code: H-6606S Colour: White

Suitable Karatage: 10/14/18K

Content: Nickel: 20.0% Palladium: 0.0%

**Silver:** 2.5% **Platinum:** 0.0%

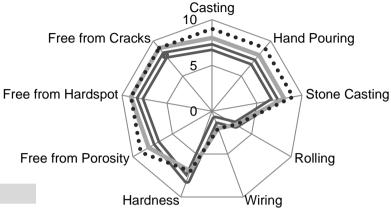
Applications: Suitable for loss wax casting

Advantages: Less porosity, high re-casting rate

## Melting Range (°C):

10K	987 - 999
14K	946 - 949
18K	901 - 903





CIELAB Value :					
Karat	YI:D1925	L*	a*	b*	
10K	16.8	81.5	-0.3	7.8	
14K	24.2	84.1	0.2	11.7	
18K	31.5	80.3	1.1	14.8	

Score(1--10)

1 means less likely to occur or not suitable 10 means most likely to occur or most suitable

Recomm	ommended Casting Parameters : (Quenching Time: 15-25 Min			Minutes)		
	Metal		Vacuum-assisted Casting			
	Casting		Investment Temperature (°C)			
Karat	Temperature		Thickness of work piece (mm)			
	(°C)	Thin (0.2~0.5)	Medium (0.5~1.1)	Thick (>1.1)		
10K	1080-1100	680-720	600-680	550-600		
14K	1040-1060	680-720	600-680	550-600		
18K	1000-1020	680-720	600-680	550-600		

Tensile Properties :							
Karat	Annealed Hardness (HV)	As Casted Hardness (HV)	Max Strength (MPa)	Yield Strength (MPa)	Elongation (%)		
10K	170	235	460	174	33		
14K	169	199	488	213	31		
18K	173	195	491	212	25		

## **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.

