TECHNICAL SPECIFICATIONS

Alloy Code:

H-145

Colour:

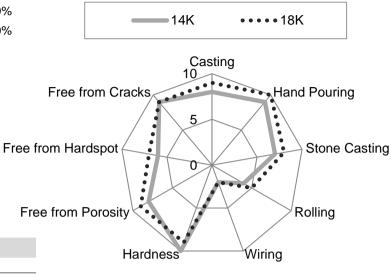
White

Heraeus

Suitable Karatage	e:	14/18K		
Content :	Nickel:	30.0%	Palladium:	0.0%
	Silver:	0.0%	Platinum:	0.0%
Applications:	Suitable for I	oss wax ca	asting	

Advantages: Less porosity, low melt-loss

Melting Range (°C):			
14K	958 - 969		
18K	905 - 919		



CIELAB Value :					
Karat	YI:D1925	L*	a*	b*	
14K	17.9	83.7	-0.6	8.7	
18K	22.9	85.8	0.2	11.2	

Score(1--10)

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

Recommended Casting Parameters :			(Quenching Time	: 20 - 30	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)	
14K	1050-1070	680-720	600-680	550-600	
18K	1020-1040	680-720	600-680	550-600	

Tensile F	Properties :				
	Annealed	As Casted	Max	Yield	
Karat	Hardness	Hardness	Strength	Strength	Elongation
	(HV)	(HV)	(MPa)	(MPa)	(%)
14K	205	223	591	224	33

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.