TECHNICAL SPECIFICATIONS

Heraeus

Alloy Co	de:		H-11	1	Colour:	Deep	o Yellow	
Suitable Karata	ige:	10/14K						
Content :	Nickel: Silver:	0.0% 10.9%	Palladium Platinum:		-	— 10K	—14K	
Applications:	Suitable for stone casti	or loss wax casting, torch melting, ting						
Advantages:	High fluidity	High fluidity, less porosity, high re-casting rate Free from Cracks Hand Pouring						Pouring
Melting Range	(ºC):					5		
10K	860 - 866			_			\times	
14K	862 - 868			Free	from Hardspot	$-\langle \rangle$	S	tone Casting
CIELAB Va	lue :			Fr	ee from Porosity			lling
Karat	YI:D1925	L*	a*	b*	Harc	Iness	Wiring	
10K	34.2	83.9	0.4	17.4	-			
14K	34.6	85.3	0.6	17.5	-			
						ess likely to or	ccur or not suitabl	
					To means			
Recommen	ded Casti	ng Para	meters :			hing Time		Minutes)
Recommen	ded Casti Metal Casting	ing Para	imeters :		(Quenc Vacuu		e: 15 - 25 Casting	Minutes)
	Metal		imeters :		(Quenc Vacuu Investme	hing Time	e: 15 - 25 casting ture (ºC)	Minutes
Karat	Metal Casting Temperatu (⁰C)		imeters :	Thin (0.2~0.5)	(Quenc Vacuu Investme Thicknes Medium	hing Time n-assisted C ent Tempera s of work pie n (0.5~1.1)	e: 15 - 25 casting ture (°C) ece (mm) Thick (>1.1)	Minutes
Recommen Karat 10K 14K	Metal Casting Temperatu		imeters :	Thin (0.2~0.5) 660-720 660-720	(Quenc Vacuu Investme Thicknes	hing Time m-assisted C ent Tempera s of work pie (0.5~1.1)	e: 15 - 25 casting ture (°C) ece (mm)	Minutes

Tensile F	Properties :				
	Annealed	As Casted	Max	Yield	
Karat	Hardness	Hardness	Strength	Strength	Elongation
	(HV)	(HV)	(MPa)	(MPa)	(%)
10K	121	144	295	155	37
14K	125	143	317	159	42

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.

