TECHNICAL SPECIFICATIONS



Wiring:

Stone Casting

Alloy Code: H-853SL Colour: Deep Pink

Suitable Karatage: 10/14/18K

Content: Nickel: 0.0% Palladium: 0.0%

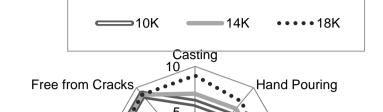
Silver: 4.0% **Platinum:** 0.0%

Applications: Suitable for loss wax casting, torch melting

Advantages: Shiny, not easily cracked, high re-casting rate

Melting Range (°C):

10K	951 - 955
14K	920 - 927
18K	893 - 897



Free from Porosity Rolling

Hardness

0

CIELAB Valu	ie :			
Karat	YI:D1925	L*	a*	b*
10K	35.1	84.8	7.3	14.2
14K	33.9	83.7	7.1	13.5
18K	36.7	83.9	6.7	15.3

Score(1--10)

Free from Hardspot

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

Mechani	ical Properties :				
Karat	Annealed Hardness	As Casted Hardness	Max. Strength	Yield Strength	Elongation
	(HV)	(HV)	(MPa)	(MPa)	(%)
10K	110	101	351	144	38
14K	120	118	396	194	41
18K	170	177	450	114	31

Recomm	nended Casting Parame	eters :	(Quenching Ti	me: 5-10	Minutes)
	Metal		Vacuum-assisted C	asting	
	Casting		Investment Temperat	ture (ºC)	
Karat	Temperature		Thickness of work pie	ce (mm)	
	(°C)	Thin (<0.5)	Medium (0.5~1.1)	Thick (>1.1)	
10K	1060 - 1080	660-720	600-660	500-600	
14K	1020 - 1040	660-720	600-660	500-600	
18K	1000-1020	660-720	580-660	480-580	

Recommended Mechanical Working	Parameters:			
Recommended Annealing Temperature (°C)	Annealing Time for thickness (min)	< 1 mm	1 - 5 mm	> 5 mm
H-853SL 600 - 650		30	35	40

Process	Casting Temperature (°C)	Recommended Reductions
Ingot	980 - 1020	Sheet Thickness % 85
Continuous Casting	1000 - 1060	Wire Diameter % 50

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.

