TECHNICAL SPECIFICATIONS



Alloy Code: H-179B Colour: Greenish Yellow

Suitable Karatage: 18K

Content: Nickel: 0.0% Palladium: 0.0%

Silver: 60.0% **Platinum:** 0.0%

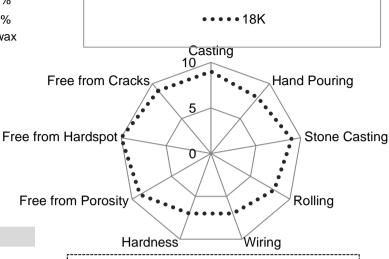
Applications: 2N yellow, Suitable for hand-making, loss wax

casting, stone casting

Advantages: Less porosity, high fluidity

Melting Range (°C):

18K 895 - 901



Score(1--10)

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

CIELAB Value :				
Karat	YI:D1925	L*	a*	b*
18K	39.7	87.5	-0.9	21.6

Mechanical Properties :					
Karat	Annealed Hardness	As Casted Hardness	Max. Strength	Yield Strength	Elongation
	(HV)	(HV)	(MPa)	(MPa)	(%)
18K	140	157	389	197	33

Recommen	nded Casting Parameters :		(Quenching Time:	15 - 25	Minutes)
	Metal		Vacuum-assisted Cas	sting	
	Casting	Investment Temperature (°C)			
Karat	Temperature	Thickness of work piece (mm)			
	(°C)	Thin (<0.5)	Medium (0.5~1.1)	Thick (>1.1)	
18K	990-1010	660-720	580-660	460-580	

Recommended	d Mechanical Working	Parameters:			
Recommended Ann	nealing Temperature (°C)	Annealing Time for thickness (min)	< 1 mm	1 - 5 mm	> 5 mm
H-179B 60	00 - 650		30	35	40

Process	Casting Temperature (°C)	Recommended Reductions	
Ingot	980 - 1040	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.

