

Physical & Mechanical Properties

Composition		Melting Range		Density (g/cc)	Hardness (HV)	
Pt	95.0%	1795° C - 1805° C	3263° F - 3281° F	20.70	As Cast	156
Ru	5.0%				Annealed ⁽¹⁾	150
Ir	0.0%				Hardened ⁽²⁾	350

(1) Annealed at 1100° C & Quenched in water (2) Aging at 700° C & slow cooled

Melting & Casting Instructions

Temperatures			
	Casting Weight	°C	°F
Casting	Medium to Heavy	2020° C – 2030° C	3668° F – 3686° F
	Light weight detailed Castings	2150° C – 2160° C	3902° F – 3920° F
Flask	Heavy Weight mountings	649° C – 760° C	1200° F – 1400° F
	Medium Weight mountings	816° C – 871° C	1500° F – 1600° F
	Delicate Light mountings	927° C – 982° C	1700° F – 1800° F

Quench Time	10 - 15 Minutes
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Remelting	50% Fresh Mix
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Investment Removal	Recommended Pt Investment remover
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General Instructions

- Use only ceramic crucibles designed for melting platinum. Flux should never be used for Pt alloys.
- Use phosphate, acid bonded or other investment materials specifically designed for platinum casting. Use recommended Pt Investment remover to remove all investment before remelting.
- Wear proper eye protection when melting platinum alloys.

Technical Assistance: Available... Call 1-800-999-3463 / 1-800-999-FINE

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