

Physical & Mechanical Properties

Composition		Melting Range		Density (g/cc)	Hardness (HV)
Pt	95.0%	1790° C - 1800° C	3254° F - 3272° F	21.40	184 (As Cast)
Ir	5.0%				
Co	0.0%				

Melting & Casting Instructions

Temperatures			
	Casting Weight	°C	°F
Casting	Medium to Heavy	2000° C – 2050° C	3632° F – 3722° F
	Light weight detailed Castings	2100° C – 2150° C	3812° F – 3902° 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	15 - 20 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.