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# Platinum group metal refining



# Materials we refine

We work with our customers to optimise precious metal recovery from complex materials up to a purity of 99.95%.

Our expert knowledge of material and analytical science, pyrometallurgy and multi stage chemical separation enables us to refine a broad spectrum of materials from a variety of industries. We're one of the only companies able to undertake full seven metal separation. If you have any of the materials listed below, please contact us. Our global network of refining sites and trusted partners may be able to help.

Material		Pt	Pd	Rh	Ir	Ru	Au	Ag	Comments
<b>Environmental catalysts</b>	End of life autocatalysts	•	•	•					Pre-processed ceramic, metallic, silicon carbide
	Production residues	•	•	•					Obsolete / reject stock
	Stationary catalyst	•	•	•					Ceramic blocks
	Production / warranty catalysts	•	•	•					
<b>Chemical</b>	Catalysts intermediates	•	•	•	•	•	•		
	Process catalyst	•	•	•	•	•	•		
	Solutions	•	•	•	•	•	•		Distillation residues
	Production residues	•	•	•	•	•	•		Wipes, filter cloths
<b>Dental</b>	Manufacturing and alloy scrap	•	•		•				Crowns and alloy scrap
	Production residues	•	•		•		•	•	Floor sweeps, grindings or other residues
<b>Electronics</b>	MLCC capacitor scrap	•	•			•			
	Capacitors	•	•			•	•		
	Targets	•				•			Pure, mixed, residues and sludge
	Sand blast and cleandown residues	•				•			
<b>Fuel cells</b>	Electrodes	•							End of life electrodes
	MEA's	•				•			End of life MEA's
	Production residues	•				•			Floor sweeps and spent catalysts
<b>Jewelry</b>	End of life scrap	•	•	•	•	•			Rings, chains, rods, ingots
	Watch cases	•	•	•	•	•			Case and strap alloys
	Production residues	•	•	•	•	•			Floor sweeps, grindings and residues
<b>Glass</b>	Pgm alloys	•	•	•	•	•			
	Crucibles	•			•				
	Thermocouples	•		•	•				
	Refractory brick	•	•	•	•	•			
	Mirroring residues		•						
<b>Petrochemical</b>	Reforming catalyst	•	•						Free flowing pellets, extrudate, spheres
	Catalyst residues	•	•						Fines
	Petroleum catalyst	•							
<b>Mining</b>	Pre-processed pgm concentrate	•	•	•	•	•	•	•	
	Residues	•	•	•	•	•	•	•	Reverted process residues
<b>Precious metal refiners</b>	Down stream process concentrate	•	•	•	•	•	•	•	
<b>Base metal refiners</b>	Down stream process concentrate	•	•	•	•	•	•	•	
<b>Refiners, semi refiners and collectors</b>	Reverted process residues	•	•	•	•	•	•	•	
	Upgraded residues / bullion	•	•	•	•	•			
<b>Minting</b>	Blanks	•	•	•	•	•			Offcuts, rejects
	Pgm residues	•	•	•	•	•			Floor sweeps, grindings or other residues
<b>Nitric acid manufacture</b>	Pgm alloys	•	•	•					
	Clean down residues	•	•	•					Pgm recovery from end of life equipment
	Filters	•	•	•					
<b>Plating</b>	Ion exchange resins / Smopex	•	•	•	•	•			
	Pgm scrap	•	•	•					
	Flake / bullion	•	•	•					

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