



Hindustan Platinum
RARE EXCELLENCE

THERMOCOUPLE WIRE



**Precision and Reliability in
every wire**

SINCE 1961

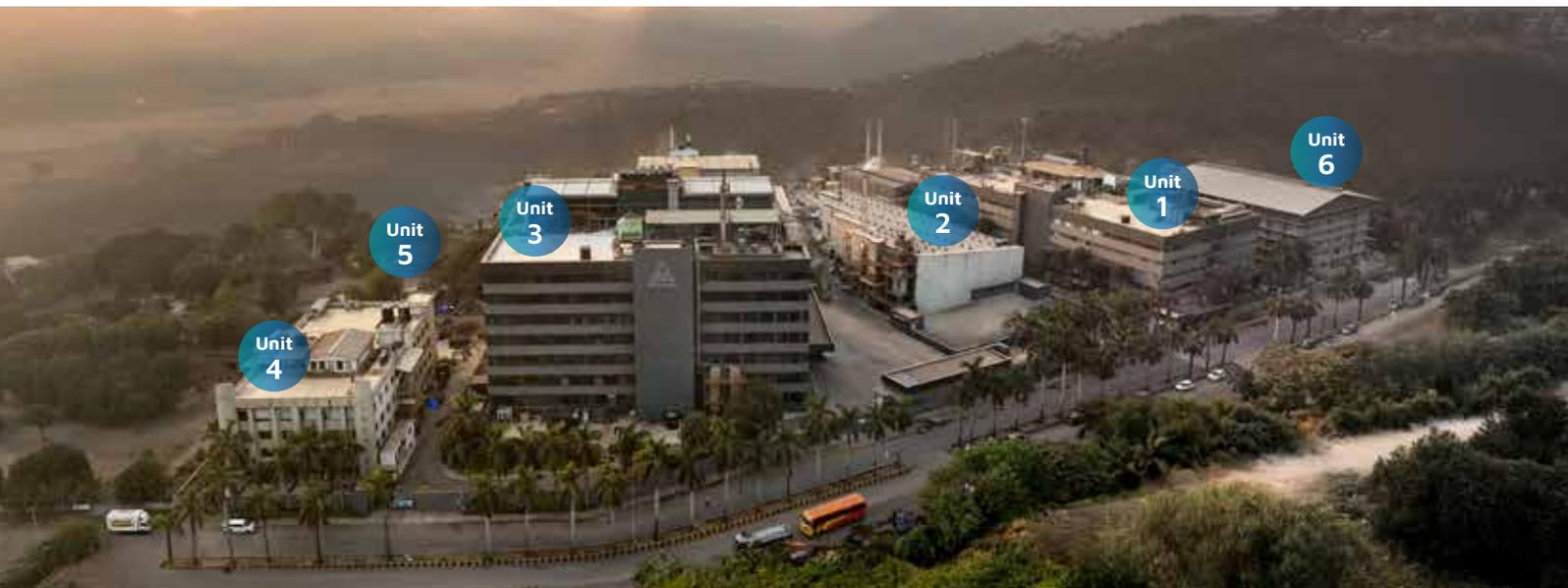
About Hindustan Platinum

Established in 1961, Hindustan Platinum is a leading manufacturer and refiner of precious metals, delivering specialized products and services across diverse industrial applications. With over six decades of metallurgical excellence, we combine precision refining, advanced manufacturing, and comprehensive support services—from technical advisory to strategic metal management—serving industries including petrochemical, pharmaceutical, automotive, chemicals, fertilizer, textiles, and beyond.

Our commitment to innovation and customer-centric solutions has built a global presence spanning over 50 countries across five continents. We operate through three strategically located entities: Hindustan Platinum Private Limited (India),

Hindustan Platinum DMCC (UAE), and Hindustan Platinum P.R. LLC (Puerto Rico). This international footprint, combined with our Navi Mumbai facility's proximity to major ports and airports, enables responsive service and efficient logistics worldwide.

Today, our team of 1100+ skilled multi-cultural professionals drive continuous innovation and excellence. Our state-of-the-art manufacturing facility is undergoing capacity expansion to meet growing global demand, reinforcing our position as a trusted partner in precious metals solutions. From catalyst refining to precision-engineered components, we deliver rare excellence across the precious metals value chain.



Our Businesses



Refining Services



Catalysts & Chemicals



Electrical Contacts



Nitro Technologies



Engineered Products

Our Accreditations



Thermocouple wire product range

We manufacture platinum and rhodium wires of a very high standard, uniform composition and free from chemical or physical defects. We produce wire with diameter ranging from 0.030 mm up to the specific requirements. Platinum and its alloys are reliable sensing

elements in high temperature measurement. We manufacture thermocouple wire that give better process control, consistent product and improved energy conservation. This includes RTD, fine wire for throw away tips and alpha wires.

Platinum and Rhodium Wires

Our Platinum and Platinum–Rhodium wires are engineered for the optimum accuracy and stability of temperature measurement applications ranging up to 1700°C.

These wires are manufactured from high purity virgin metals having only spectrographic traces of other elements and are stress relieved. The accuracy between the relation of temperature and EMF is within the tolerance of the standard calibration.



'S', 'R' and 'B' Type Wire uses and temperature range

Type	Combination		Working temperature range °C	
	- ve	+ ve	Max.	Continuously
S	Pt	Pt /10%Rh	1600	1300
R	Pt	Pt /13%Rh	1600	1300
B	Pt/6%Rh	Pt /30%Rh	1700	1500



Platinum and Platinum–Rhodium Wires for Throw-Away Tips

We manufacture high temperature application wires for throw away tips having diameter upto 0.030 mm.

Each wire is drawn with meticulous control to ensure a precise and stable relationship between temperature and EMF, consistently maintained within stringent international tolerance standards.



Furnace Winding Wires

With their high melting point and excellent resistance to oxidation, Platinum and Platinum–Rhodium wires are suitable for furnace winding for the temperature above 1000°C. While precious metal based resistors may have a higher initial cost compared to base metal alternatives, their extended service life and high resale value makes it most economical to use Platinum/Rhodium wires for furnace winding.

Responsible Precious Metal Recovery and Refining

Recognising the value of precious metals, we offer reprocessing of used Platinum and Platinum / Rhodium wires for reuse as per requirements.

We reprocess the used wires at nominal charges, as per requirements.

Specification and Calibration

Our Platinum and Platinum–Rhodium wires are manufactured in accordance with ISI Specification IS: 8018:1976 (and as amended thereafter) and conforms to the EMF/ Temperature relationship based on the International Temperature Scale of 1990 (ITS-90).

Wire Diameter Tolerance

Diameters (mm)	Tolerance (mm)
0.03 - 0.05	+/- 0.001
0.05 - 0.09	+/- 0.001
0.10 - 0.25	+/- 0.005
0.30 - 0.40	+/- 0.005
0.45 - 1.00	+/- 0.010
1.50 - 2.00	+/- 0.020

Properties of Platinum and Platinum-Rhodium Wires

Details	Platinum	Platinum/ 10% Rhodium wire	Platinum/ 20% Rhodium wire
Melting Point	1773	1830	1860
Specific gravity	21.4	20	18.7
Resistance – Ω/ft (values calculated on a per million feet basis)	65	115	125

Sustaining Value. Creating Tomorrow.

Sustainability is integral to how we operate and create long-term value for our customers, our people, and the environment. Our approach balances economic performance with environmental responsibility and social impact, supported by strong governance, ethical conduct, and accountability.

We focus on reducing our environmental footprint through responsible resource management, energy efficiency, and sustainable manufacturing practices, while advancing circular metal recovery across our operations.

People are central to our sustainability journey. Through safe workplaces, continuous skill development, and meaningful community engagement, we invest in resilient teams and stronger communities.

Across all activities, we uphold high standards of integrity, compliance, and transparency to ensure accountability and long-term trust.

This approach reflects Hindustan Platinum's commitment to responsible growth, delivering reliability and excellence today, while safeguarding tomorrow.



Industries We Serve

Electroplating industry

Fertiliser, industrial & defense explosives, Caprolactam & cyanide manufacturers gauzes

Glass fiber and glass wool industries

Glass and optical glass industries

Man-made fiber industries

Pharmaceutical and chemical industries

Research and analytical laboratories

Steel and glass industries

Switchgear, control gear, automobile, spacecraft, elevator and home appliance industries

Oil refineries, petrochemical industry and all other industries

Jewellery Industry

Products We Make

Precious metal salts and solutions

Platinum/Rhodium catalyst
Palladium alloy catchment gauzes

Platinum/Rhodium alloy bushings
Spinner baskets

Platinum/Rhodium alloy stirrers
Thimbles, orifice rings, liners, etc

Precious metal spinnerets
cluster spinnerets
Tantalum filters
Stainless steel spinnerets

Precious metal salts supported and unsupported catalysts

Platinum laboratory apparatus

Platinum and Platinum/Rhodium
Thermocouple wires
Throwaway tips

Electrical contacts

Recovery and refining of precious metals from industrial scrap

Supplier of Pt 950 granules in composition of Palladium, Cobalt, Copper, Ruthenium, Iridium etc.
Supplier of Pt 950 Chain in roll, Pt 950 Blanks/Rings and other Pt 950 allied products for jewellery industries

RARE EXCELLENCE



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