

KEY PGM INDUSTRIES

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PGMs are rare crucial metals that are defined by their purity, high melting points and unique catalytic properties. Its versatility lends itself to various industrial-, technology- and commercial applications.

Automotive Industry

- Palladium and rhodium demand is driven by gasoline-powered vehicle sales
- Platinum demand is driven by diesel-powered vehicle sales
- Platinum is used in electronic vehicle fuel cells due to its thermal durability, catalytic properties and pollution control
- Platinum is used as an effective catalyst in hydrogen-powered fuel cell electric vehicles
- Platinum is used for fine platinum wire coated sensors in vehicles to enhance safety

Jewellery

- Cartier introduced platinum jewelry in 1890. The hardness and ductility of platinum alloys were preferred to gold and silver for delicate hand-fabricated designs
- Platinum is resistant to discoloration and tarnishing, making it a popular choice for jewelry
- Platinum is alloyed with palladium, iridium, ruthenium, copper or cobalt to increase its hardness for jewelry applications

Industrial Applications

- PGMs catalytic efficiency lends itself to be used in many industrial, chemical and petroleum industry processes
- The medical and biomedical industry uses PGMs for their biocompatibility
- PGMs are used in the production of nitric acid, which is required for the production of nitrogen fertilisers
- Due to PGMs high melting points, it is used in glass production factories and in LCD glass (used in watches and laptops), and fibre glass manufacturing

Investment

- Investment opportunities include the purchase of platinum bars, coins and exchange traded products (ETF)
- Platinum ETF were created in 2007
- PGMs commodity prices are influenced by supply and demand, and is in a large part driven by the automotive industry through automotive sales and production

PGMs are used in various industrial processes and applications. Unearth the opportunities by partnering with VBKOM.

Sources:

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