

PGMs PLATINUM GROUP METALS

Enabling clean technologies and a lower-carbon future

Platinum Group Metals (PGMs) play an important role in emissions control, industrial processes, hydrogen technologies and high-performance applications.

TAKRAF

AT A GLANCE

-  Critical for catalysts and industrial applications.
- H2** Essential for hydrogen-related technologies.
-  Include: platinum, palladium, iridium, osmium, rhodium and ruthenium.
-  Geographically concentrated supply.
-  Highly valuable and strategically important.

WHY PGMs MATTER



EMISSIONS CONTROL

PGMs are used within catalytic converters that significantly reduce harmful vehicle emissions.

H2

HYDROGEN ECONOMY

PGMs are vital for electrolyzers, fuel cells and hydrogen production.



CHEMICAL INDUSTRY

PGMs are key catalysts in fertilizer production and refining processes.



JEWELRY & INVESTMENT

Rare, durable and intrinsically valuable for jewelry and investment.



ADVANCED PERFORMANCE MATERIALS

Enable high-temperature, corrosion-resistance and precision applications.

WHERE ARE PGMs FOUND?



Key production regions



PGMs are mined primarily from dedicated PGM deposits, particularly in Southern Africa, while significant quantities are also recovered as by-products of nickel and copper mining, notably in Russia and other countries.

(U.S. Geological Survey, 2026, p. 145)

KEY CHALLENGES



COMPLEX MINERALOGY

Difficult ores require advanced liberation and recovery.



WATER & ENERGY EFFICIENCY

Rising costs and resource constraints demand smarter use.



ESG EXPECTATIONS

Higher standards for environmental and social performance.



PROJECT ECONOMICS

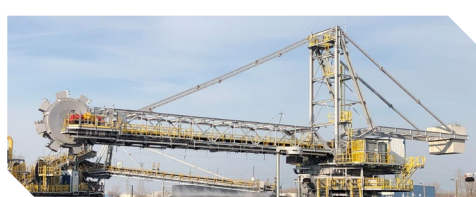
Capital intensity and volatility pressure project returns.

OUR ROLE



TRANSPORT

From all types of feeders to all types of conveyors for safe and efficient material transport.



HANDLING

Covering all types of ore and concentrate handling technologies.



PROCESSING & BENEFICIATION TECHNOLOGIES

Advanced solutions to liberate, concentrate and recover PGMs.



TAILINGS & WATER MANAGEMENT

Responsible solutions for tailings handling and water stewardship.

PART OF A STRONGER GROUP



Transport



Handling



Processing

Extractive metallurgy

Product handling

TAKRAF

DELKOR

tenova

TAKRAF



Supporting the metals behind clean technologies and future-facing industries.