

Precious Metals Recovery and Refining



60 YEARS OF EXCELLENCE

Platinum ■ Palladium ■ Rhodium ■ Ruthenium ■ Gold ■ Silver ■ Rhenium

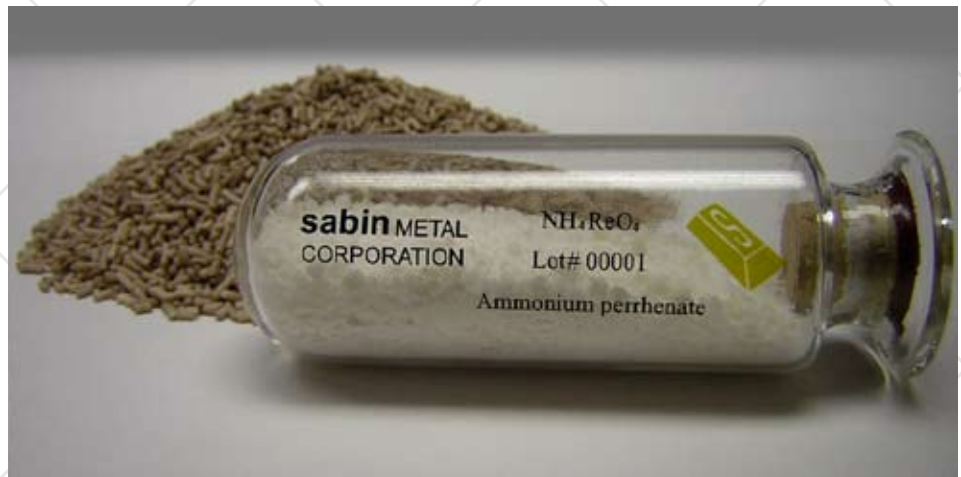
Recovering platinum/rhenium from spent hydrocarbon processing catalysts

Now ... practical, cost-effective recovery of platinum/rhenium reforming catalysts, regardless of solubility— with maximum returns

Platinum/rhenium catalysts are widely used in the processing of hydrocarbon products. As rhenium values have increased, recovery techniques from spent catalysts have not kept pace. However, most users look to their refiners for increased recovery yields. Finally, there is a practical, cost-effective breakthrough that addresses this issue: after years of research, Sabin scientists have developed a unique method of recovering rhenium from hydrocarbon processing catalysts. Innovative technology allows us to offer you the same performance and quality standards for recovering and refining spent catalysts with rhenium components that we have provided our worldwide customer base for more than 60 years.

Consider these Sabin advantages for rhenium recovery.

- Rhenium recovery from spent semi-regenerative and cyclic fixed-bed catalysts on soluble and insoluble alumina supports



- Rhenium returned as ammonium perrhenate to catalyst manufacturer specifications.
- In-house point-to-point logistics and transportation services worldwide
- Continuous sampling system yields statistically valid samples
- State-of-the-art laboratory for accurate and precise analysis
- Compliance with all local, state, and federal environmental and safety regulations
- Compliance with the Anti-Money Laundering Rule of the USA PATRIOT Act

If you use rhenium-based catalysts for hydrocarbon processing, we'd like the opportunity to prove what *Sabin service* really means. We'll show you how we maximize returns of rhenium and other precious metals from your spent catalysts, and how we can help add value to your bottom line.

As the largest independent precious metals refiner in North America (with refineries and customer service facilities throughout the world), we use the industry's most advanced sampling, assaying, and processing techniques. Our turnkey in-house capabilities – including point-to-point transportation virtually anywhere in the world – and in-plant pre-burning methods help reduce costs and speed processing.

Regardless of your reforming catalyst process (semi-regenerative, cyclic fixed-bed reforming, or continuous regeneration), Sabin's field-proven refining/recovery techniques will assure highest possible returns for rhenium content. This is particularly important if you use a continuous regeneration system which typically contains *twice the concentration of rhenium* as other rhenium-based catalysis processes.