

Precious Metals Recovery and Refining



60 YEARS OF EXCELLENCE



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

Recovering PGMs and other precious metals from spent pharmaceutical and fine chemical processing catalysts

We'll work together to maximize your returns, lower your costs, increase your profits, and assure your peace of mind

Sabin service—consider these key advantages:

- In-plant pre-burning capability for one stop, single source processing
- 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
- Complete transportation services (Sabin International Logistics Corp.)
- Sixty years of success built upon technology, reliability, and trust



Most pharmaceutical processors use precious metal-bearing catalysts that incorporate platinum, palladium, ruthenium, rhodium, or some combination.

Pharmaceutical manufacturers and fine chemical processors that employ precious metal-bearing catalysts are challenged by escalating costs for

sible returns, and how we can help enhance your profits.

Heterogeneous palladium on carbon, platinum on carbon, palladium on alumina, and palladium on

energy, labor, raw materials, and other production/overhead expenses. If your organization uses platinum group metals (platinum, palladium, ruthenium, and rhodium) or gold, silver, or rhenium, we'd like the opportunity to prove what *Sabin service* really means for recovering and refining maximum value of these materials from your spent process catalysts. We'd like to show you how we can provide highest pos-

calcium carbonate catalysts, plus various gold compounds for hydrogenation and other reactions from intermediates typically represent a small portion of overall processing/manufacturing costs, yet they are by no means insignificant. Most of these metals' values have risen significantly over the past few years.

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 turn-key in-house capabilities—including point-to-point transportation virtually anywhere in the world—and in-plant pre-burning capabilities help reduce costs, speed processing, meet all applicable environmental standards, and assure maximum return values of precious metals.



Maximizing value for your precious metal-bearing catalysts

Sabin Metal uses the industry's most advanced analytical and processing capabilities, working to lower recovery and refining costs while speeding these processes to help you realize substantial savings (perhaps thousands or even hundreds of thousands of dollars each year).

For example, prior to sampling procedures, our unique in-plant pre-burning system eliminates moisture, carbon, sulfur, and other contaminants to help assure highest possible sampling accuracy. To produce statistically valid samples, we employ an advanced con-

tinuous catalyst sampling system which generates homogenous, consistent, and reproducible intermediate samples that represent — as accurately as possible — an entire lot of spent catalysts.

Sabin's analytical laboratory uses advanced X-ray fluorescence equipment, atomic absorption (AA), and inductively coupled plasma (ICP) emis-

Custom designed "car bottom" thermal reduction furnaces on tracks speed processing turnaround time significantly for large volumes of materials, virtually eliminating downtime to enhance efficiency and reduce refining costs.



sion spectroscopy, and proven volumetric, gravimetric, and fire assay techniques.

Environmental considerations — what you need to know

Sabin's environmental concern and conservation policies are renowned throughout the world and are vital for your protection. Our refineries are considered the most sophisticated of their kind for safely processing precious metal bearing materials. Process exhaust is managed using advanced air pollution control systems. All hazardous materials are disposed of according to strict environmental compliance standards. We work closely with appropriate regulatory agencies on issues relevant to environmental compliance, and with our customers to help them understand and meet regulations that may affect them. When it comes to protecting our environment — and your financial interests as well — Sabin Metal is unique among refiners.



How to get more information . . .

Tell us about your precious metals management program and recovery requirements. Chances are we can offer you practical, common sense, and profitable options for maximizing returns of precious metals from your spent process catalysts and other production by-products. **Let us hear from you today.**

Request free in-house plant survey to determine precious metals sources, and visit us at sabinmetal.com.

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