

# Precious Metals Recovery and Refining



60 YEARS OF EXCELLENCE

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

## Recovering PGMs and other precious metals from spent petroleum 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:**

- Point-to-point logistics and transportation services worldwide
- 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
- Electric arc furnace technology maximizes precious metals recovery
- Compliance with all local, state and federal environmental and safety regulations



**W**hat do you expect from a precious metals refiner? Obviously you want the same qualities that other people expect from your organization: fair, straightforward treatment; prompt, responsive service; and, reliability/performance standards that are above reproach. Our customers expect the same from us; we've treated them this way for more than 60 years.

If your organization uses platinum group metals (platinum, palladium, ruthenium, and rhodium), or gold, silver, or rhenium to produce or process petroleum products, we'd like the opportunity to prove what *Sabin service* really means. We'd like to show you how we can provide highest possible returns of precious metals from your spent catalysts, and how we can help add value to

your business.

Sabin Metal recovers and refines precious metals from spent petroleum processing catalysts with soluble and insoluble alumina, silica-alumina, zeolite, and carbon supports. 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 turnkey in-house capabilities — including point-to-point transportation virtually anywhere in the world — and in-plant pre-burning capability 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 the sampling procedure, our unique in-plant pre-burning system eliminates moisture, carbon, sulfur, and other contaminants to further assure highest possible sampling accuracy. To produce statistically valid samples, we employ an advanced continuous catalyst sampling system which generates homogenous, consistent, and reproducible intermediate samples that represent — as accurately as possible — the entire lot of spent catalysts.



*Recovered precious metals are returned to customers in various forms.*

Sabin's analytical laboratory uses advanced X-ray fluorescence equipment, atomic absorption (AA), and inductively coupled plasma (ICP) emission 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 environmental regulations that may affect them. When it comes to protecting our environment — and your financial interests as well — Sabin Metal is unique among refiners.



*Inductively coupled plasma (ICP) emission spectroscopy for accurate and precise analysis of precious metals samples; our analytical laboratory also uses classic volumetric, gravimetric, fire assay techniques, advanced X-ray fluorescence equipment, and atomic absorption (AA) techniques.*



## 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](http://sabinmetal.com).**

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**Additional Facilities:** Williston, ND • Cobalt, Ontario, Canada • Latin America • Mexico • Europe • Asia Pacific