Shepherd

CREATING VALUE THAT BRIGHTENS LIVES



Refinery Catalysts

- Catalyst Development
- Process Optimization
- Sustainable Chemistry

50+ Years Partnering with the Refinery Catalyst Industry

Our expertise spans catalyst precursor manufacturing, catalyst support impregnation, & engineered particle technologies designed to improve performance while reducing operational complexity.

These Catalyst Precursors are placed upon a support material, such as alumina (Al2O3), the mixture is calcined, dried, and extruded into various shapes to meet customer demands for use in their respective refinery applications.



Sustainable Chemistry

Shepherd's catalyst solutions include both homogeneous & heterogeneous catalyst and catalyst precursors. These help customers improve efficiency, reduce energy consumption, enhance reaction selectivity, and extend catalyst life. By supporting more efficient refining and petrochemical processes, our products contribute to sustainability objectives while maintaining operational excellence.

Why Shepherd Metal Nitrate Solutions?

Metal Nitrate Solutions are used in the preparation of hydroprocessing catalyst products utilized by the refining industry for the removal of nitrogen (N), oxygen (O), and sulfur (S). While the term hydroprocessing encompasses a number of reactions, nickel nitrate is included specifically in the reaction that focuses on the removal of sulfur, or hydrodesulfurization.

Norwood, OHIO (513) 731-1110 | Mirecourt, FRANCE +33-3-29-37-8822 | Shanghai, CHINA +86 186-1653-4890

>50%

CUSTOM CO-DEVELOPED & TAILORED INNOVATION

From concept through commercialization, our experts provide the technical support necessary to bring innovative catalyst technologies to market.

Key Metal Chemistries

Metal Nitrates

- Cobalt Nitrate Solution, 15%
- Nickel Nitrate Solution, 15%
- Nickel Nitrate Solution, 13%
- Nickel Nitrate Solution, 14%
- Zinc Nitrate Solution 17%
- Manganese Nitrate Solution 50%

Organometallic Catalysts

- Molybdenum Octoate 15.5%

These products support catalyst preparation and refinery applications where purity, consistency, and performance are critical.

Your next breakthrough catalyst solution starts here!

CONTACT US

www.shepchem.com