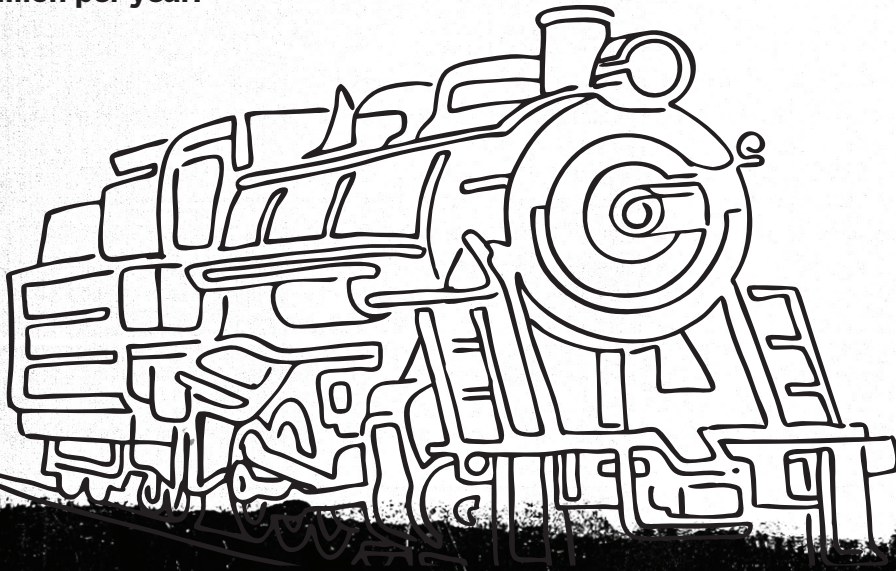


NSF REGISTERED • PENETRANTS • GREASES • LUBRICANTS • OILS

# PROVEN PRODUCTS FOR THE RAIL INDUSTRY

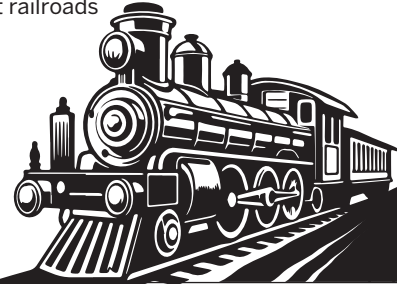
Even in today's high-speed, high-tech culture, a remarkable amount of people, products and raw materials continue to traverse the country on the rails. In the United States, the \$80 billion freight rail industry ensures that many necessities get from place to place, and the \$99 billion passenger rail industry continues to grow, as more people hop aboard. Maintaining thousands of locomotives and millions of freight and passenger cars is a huge undertaking, as is the maintenance of nearly 160,000 miles of track. In fact, according to the Association of American Railroads, US freight railroads spent over \$810 billion on maintenance and capital expenditures between 1980 and 2023, averaging over \$23 billion per year.



### WHO KNEW?

## \$23 BILLION

Average annual cost of maintenance and capital expenditures for US freight railroads



## 1.6 BILLION

Tons of freight moved annually by railroads across the United States

## 37,600

Number of locomotives in active service or on standby in North America

**MORE PRODUCTS ON BACK** 



Trains of all kinds, and the rail systems that carry them are primarily made of metal. Rust and corrosion are common foes, and the prevention of such has been a primary concern of railway engineering since the industry began. Rust and corrosion impact the structural integrity of tracks, rolling stock and more, resulting in:

- ⦿ Increased maintenance costs
- ⦿ Potential safety risks due to rail and equipment failures
- ⦿ Service disruptions due to needed repairs
- ⦿ Reduced lifespan of infrastructure components

## PROVEN PRODUCTS FOR THE RAIL INDUSTRY

Train and rail repair and maintenance are massive undertakings. Routine maintenance includes cleaning, visual inspections, parts replacements and greasing points. Periodic maintenance is carried out every 2–3 years, and heavy maintenance is performed every 3–4 years, when trains have driven roughly 400,000–500,000 km. Railroad maintenance professionals regularly turn to the following products from Kano, the makers of Kroil and Super Lube®, to deal with rust, corrosion and lubrication on locomotives, rail cars, tracks, switches, bridges, loading platforms and more:



### Kroil Penetrants

Available in Original (including Aerokroil aerosol), Silikroil with Silicone and Penephite with graphite formulas, Kroil quickly loosens rusted nuts and bolts, frees frozen shafts and more. Kroil penetrates the smallest opening, thread or crevice to help remove and prevent rust, clean and lubricate, and displace moisture.



### Super Lube Railroad Switch Plate Lubricant

Formulated with Syncolon® and designed to satisfy the mechanical requirements associated with railroad turnouts and switches. Operates from -45°F to 450°F (-43°C to 232°C), and maintains basic consistency without drying or gumming up. Winter freeze ups are reduced, and wear is minimized.



### Exrust Rust Remover

Penetrates and chemically reacts with rust to quickly remove it from all surfaces. It is effective on all ferrous metals without harming the base steel or iron. After treatment, any type of finish can be applied. Not for use on non-ferrous metals.



### Super Lube High Viscosity Railroad Switch Plate Oil

A fortified track switch oil with anti-icing properties for railroad switch slide plates, throw rods and other moving parts. Compatible with most rubbers and plastics. Operates from -45°F to 300°F (-43°C to 149°C), maintaining its basic consistency without drying or gumming up. Winter freeze ups are reduced, and wear is minimized.



### Pyrolube High Temperature Lubricant

Provides superior, long-lasting lubrication at temperatures up to 1359° F (700°C). It leaves a smooth, graphoid-lubricated surface, and will not drip or form abrasive particles. It also reduces wear by preventing metal-to-metal contact.



### Super Lube Anti-Corrosion and Connector Gel

Specially formulated with high molecular weight to be used as a dielectric compound and corrosion inhibitor. It is effective on plugs and connectors, electrical terminals and fittings, spark plugs and coil connectors. It provides a superior oxidation barrier and reduces fretting wear.



### Super Lube Railroad Grease

NLGI Grade 1 grease specially formulated for track side lubricators. Reduces noise and wear associated with wheel flange to curved rail sections on light rail systems. The addition of Syncolon®, enhances the lubricity of the synthetic base oil, providing exceptionally long tracking results and reduced number of lubricators required. Dielectric, food grade and clean.



### Super Lube Silicone Dielectric and Vacuum Grease

Specially formulated non-curing silicone compound that exhibits superior performance in both electrical and vacuum applications. Seals, protects and insulates electrical components and connectors. It is waterproof and provides a barrier against moisture and other contaminants in many types of electrical contact points.

Kroil



Find all Industrial Grade Kano Products at [www.Kroil.com](http://www.Kroil.com) or contact [sales@kanolabs.com](mailto:sales@kanolabs.com)

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Super Lube

