



Buy Local: All Permanganate is Not Equal

RemOx[®] S ISCO Reagent
RemOx[®] L ISCO Reagent

TECHNICAL BRIEF

LEADERSHIP

Over the past century, working from its original home in LaSalle, IL, Carus Corporation has developed a reputation for being the industry leader in quality and customer service while becoming one of the largest permanganate producers in the world.

Through collaboration with remediation industry professionals and our internal staff, Carus has developed innovative products and oxidation treatment techniques to assist our customers in achieving remedial goals.



LOCATION, LOCATION, LOCATION

Processing of Carus permanganate brands, RemOx[®] S ISCO reagent and RemOx[®] L ISCO reagent, occurs in the LaSalle, IL location. We transform raw materials in our process into quality products, creating manufacturing jobs in the United States. Our warehouse and headquarters are also located in Illinois, allowing Carus the opportunity to provide quick lead times and unmatched world class customer service. We have a regional sales team located across the United States and employ over 200 people.



SUSTAINABILITY

Our permanganate multi-step manufacturing processes are proprietary, and include a century of the best improvements in U.S. chemical processing technologies. We also continue to search the globe for the highest quality raw materials that meet our stringent specifications. We take our raw materials, including energy, to convert from a raw manganese ore to permanganate.

Ongoing efficiency efforts at Carus' LaSalle, IL site places Carus in an elite group of industry leaders. The American Chemistry Council (ACC) has honored Carus Corporation with an Exceptional Merit Energy Efficiency Award four years consecutively along with Exceptional Merit designation two out of the four years. Carus was also one of ten companies recognized by the ACC with "Waste Minimization, Reuse, and Recycling" awards. Carus was one of only three companies to be honored for multiple sustainability projects, earning awards for "Water Reuse and Waste Minimization".

In partnership with the Illinois Sustainable Technology Center's "One Billion Gallon Water Challenge", Carus reduced water use by over 60 million gallons per year. In addition, Carus' "Water Recycling Project" decreased water consumption by 30% in 2017.

Carus also received the Governor's Sustainability award for significantly reducing energy use. As a participant in the Department of Energy's "Save Energy Now LEADER" program, Carus reduced energy consumption by 28% in just five years — exceeding the goal of 25% over a decade.



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QUALITY

RemOx[®] S ISCO reagent and RemOx[®] L ISCO reagent consistently meet the challenges of our remediation customers' needs. While other producers try to replicate our products, RemOx S and RemOx L remain unique in the industry.

All permanganates do not meet the **consistent quality** of RemOx S and RemOx L. Carus' procurement department analyzes raw materials to find the highest quality raw materials for use in our manufacturing processes. Each production lot is analyzed by our quality control department and shipped with a Certificate of Analysis (C of A). We strive to maintain low trace metals in our permanganates to meet our tight specifications. Since 2002, Carus has spent considerable time and resources to identify the matrix interferences to optimize our analytical methods to provide accurate metals results.

When asked why our customers recommend Carus' products, they said:

"Great product. Always consistent." and **"Excellent top quality products."**

BENEFITS

RemOx S and RemOx L are only produced by Carus Corporation, the world leader in permanganate technology. Carus Corporation has over 20 years of dedicated service to the remediation industry. We provide the following benefits to our customers:

- Consistent product quality
- Lower total cost to treat potential
- Convenient packaging options
- Simplified Science[®] — easy application
- Field proven results
- Dedicated customer service department
- Cost effective delivery solutions
- Complete technical support
- Flexible payment terms of Net 45 days
- Return policy for unopened packages

CARUS VALUE ADDED

During its over 100-year history, Carus Corporation's ongoing reliance on research and development to provide Simplified Science[®] — as well as its emphasis on consistent quality, technical support, and customer service — has enabled the company to become the world leader in permanganate oxidation, manganese catalyst, & phosphate technologies.

LABORATORY SUPPORT

Carus' technical experts are available to evaluate treatment alternatives and perform laboratory testing. Our laboratory capabilities include:

- Feasibility studies
- Treatability studies
- Analytical services
- Research & development

FIELD SERVICES

As an integral part of our technical support, Carus provides extensive on-site treatment assistance. To accomplish a successful evaluation and/or application we offer full application services, including:

- Technical expertise
- Testing
- Equipment recommendations
- Safety training

PRODUCT STEWARDSHIP

Carus' mission to provide environmental solutions expands well beyond serving our customers' needs. We are equally committed to maintaining sustainable, responsible, environmentally-friendly operations.

