



Advanced
Insulation
Solution

Lohtragon®

Crystallizing Solutions

Driving Future Innovations: Lohtragon® Metal Salts in the Insulation Industry

Advanced Insulation Solutions with Lohtragon® Functional Additives

Drive future-oriented insulation solutions by enhancing product and process performances, while considering sustainability improvements across multiple insulation industries with Lohtragon® metal salts – essential for a wide range of insulation applications.

Lohtragon® products function as catalysts in the synthesis of advanced insulating foams, extend the longevity of natural fiber and cellulose insulations, and serve as fire retardants to enhance safety and regulatory adherence.



Technical Advantages of Lohtragon® Metal Salts

Lohtragon® metal salts are distinguished by their effectiveness, ease of incorporation, ability to extend material durability and their compatibility with environmental and regulatory standards – offering several key benefits:

Catalytic Functionality:

- ◆ **Trimerization Catalysts:** Lohtragon® catalysts are optimized for the synthesis of polyisocyanurate (PIR) rigid foams, facilitating efficient trimerization reactions.
- ◆ **Process Optimization:** Achieve superior efficiency with optimized chemical kinetics, enhanced reaction selectivity, and consistent reliability.
- ◆ **Superior Foam Properties:** Synthesize rigid foams exhibiting high thermal stability, improved fire resistance, and high-performance insulating characteristics.
- ◆ **Chemical Versatility:** Access a broad range of Lohtragon® potassium salts, available in various forms including solids, aqueous solutions, and solutions diluted in monoethylene glycol (MEG) or diethylene glycol (DEG). Our advanced R&D services provide further customization to your specific specifications.
- ◆ **Innovative Solubilization:** Our R&D efforts have led to the development of water-free solubilization techniques for selected Lohtragon® salts, addressing evolving market requirements. [Read more here.](#)



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Durability Enhancer:

- ◆ **Extended Lifespan:** Lohtragon® metal salts significantly increase the durability of natural fiber and cellulose insulations.
- ◆ **Fungal and Pest Resistance:** Enhance material longevity through superior resistance to fungal growth and pest infestations
- ◆ **Sustainability:** Improve the durability of eco-friendly insulation materials, contributing to longer-lasting and more sustainable insulation solutions.



Cross-Linking Efficiency:

- ◆ **Aluminum Crosslinkers:** Lohtragon® aluminum salts and their solutions are engineered for maximum cross-linking efficiency in a variety of insulation applications.
- ◆ **Advanced Performance:** Improve the structural integrity and performance of insulation materials through optimized cross-linking processes.
- ◆ **Versatility:** Our aluminum crosslinkers are suitable for diverse applications offering tailored solutions for specific insulation requirements.



Flame Retardancy:

- ◆ **Safety Enhancement:** Lohtragon® metal salts significantly improve the fire resistance of specific insulation materials.
- ◆ **Regulatory Compliance:** Ensure your insulation products meet stringent fire safety standards.
- ◆ **Enhanced Protection:** Improve the overall safety profile of your insulation solutions with effective flame-retardant properties.



Integrate Lohtragon® metal salts into your insulation products to achieve outstanding performance, durability, and safety. For comprehensive technical information and customized developments, please get in touch with us.

Contact

Connect directly with our Lohtragon® experts in our German headquarter.



+49 5155 63-5888



contact@lohtragon.com



www.lohtragon.com

Lohtragon® – A Brand of Dr. Paul Lohmann®

For over 135 years, the company Dr. Paul Lohmann has been able to establish and maintain its leading position as an international manufacturer of mineral and metal salts that meet the highest quality standards. The product range includes over 400 different salts, from Aluminum to Zinc, in a total of over 7,000 different specifications.

Dr. Paul Lohmann® supplies its specialty salts worldwide to customers in the pharmaceutical industry, food sector, food supplements, cosmetics and – under the Lohtragon® brand – to customers in industrial applications.

Lohtragon® represents unique competencies in manufacturing, optimization and development of metal salts for a wide variety of industrial market segments. Tailor-made for your application and your process - our solution to your challenges!

Established Products

By choosing Lohtragon® products, you benefit from direct manufacturer sourcing and our "Made in Germany" quality and reliability promise.

Joint Developments

From concept phase to tailored product optimization, we are your partner to solve any development challenge.

Expert Services

Rely on services from our R&D, application technology, regulatory affairs, logistics, quality departments and more. We fully support you in all areas.

The information given in the document corresponds to our current knowledge. We warrant in the frame of our General Terms and Conditions of Sale that our products are manufactured in accordance with the specifications. However, we disclaim any liability with regard to the suitability of our products for a particular purpose or application or their compatibility with other substances. Tests have to be performed by the customer who also bears the risk in this respect. Nothing herein shall be construed as a recommendation to use our products in conflict with third parties' rights.