



Vantage International
Metal Industries LLC

White Bath/Cryolite 5-40 MM



Image Source: Vantage International Metal Industries, KIZAD Facility, 2024

Vantage International Metal Industries LLC stands at the forefront of technological innovation with our advanced cryolite production, a pivotal component in the aluminum smelting process. Cryolite acts as a solvent for Bauxite, playing a critical role in the extraction of aluminum through the Hall-Héroult electrolytic process. Our state-of-the-art production facilities employ rigorous quality control measures to ensure the highest standards of purity and particle size distribution in our cryolite offerings.

As an integral part of aluminum production, cryolite functions as a conductive medium, facilitating the dissolution of alumina and enabling the extraction of aluminum metal. Our cryolite is engineered to possess optimal chemical and physical properties, enhancing its efficiency in the electrolysis process. Its precisely controlled particle sizes, available in various dimensions including 0-5 mm, 5-20 mm, 20-40 mm, 0-40 mm, and 5-40 mm, cater to the diverse needs of industries engaged in aluminum smelting.

At VIMI, our commitment extends beyond technological prowess; we are dedicated to delivering cryolite solutions that not only meet stringent technical specifications but also align with our principles of environmental sustainability. Explore the depths of our cryolite production, where precision meets innovation, and discover how Vantage International Metal Industries LLC is shaping the future of the aluminum industry. Partner with us, and experience firsthand our dedication to circular economy principles as we shape responsible, eco-friendly solutions for diverse clients, from SMEs to Stock-Listed Firms and Governments. Explore the technical intricacies of our cryolite production process and discover how Vantage International Metal Industries LLC (VIMI) sets the benchmark for tailormade recycling solutions, delivering unparalleled quality and reliability in the aluminum industry.

Test Parameter	Result	Available Sizes:	
Silicone Dioxide (SiO ₂) + IR	19.0 % by weight	0-5 MM	20-40 MM
Calcium Oxide (CaO)	3.0 % by weight	5-20 MM	0-40 MM
Aluminium Oxide (Al ₂ O ₃)	32.3 % by weight		

Facility Location:

📍 Abu Dhabi

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