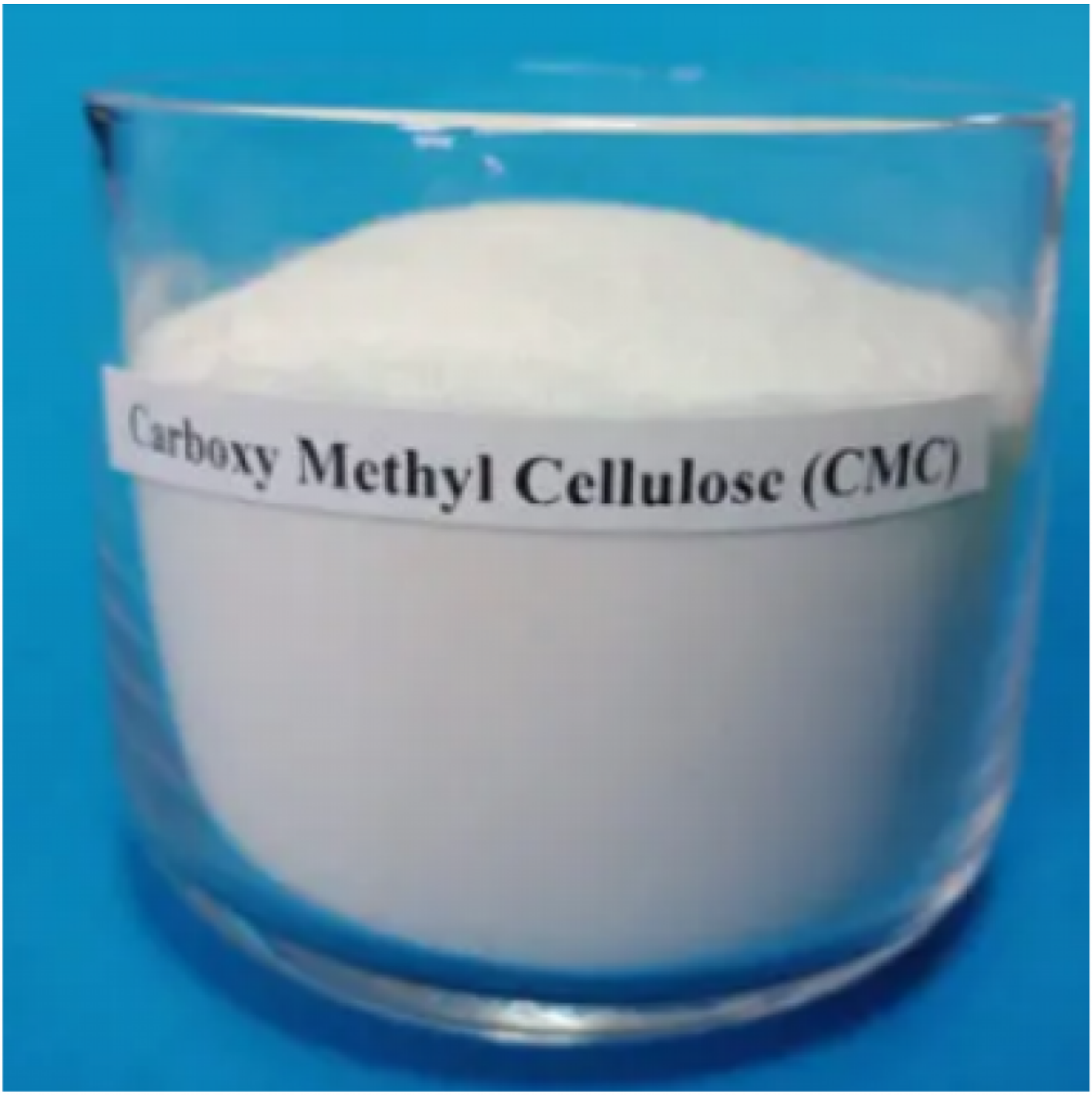
What Sets Kima Chemical Apart as a Global Leading SODIUM CARBOXYMETHYL CELLULOSE Supplier



Zhangdian, Shandong Mar 3, 2026 (Issuewire.com**)** - The international chemical manufacturing sector is currently witnessing a significant structural transition, driven by the increasing necessity for sustainable, bio-based polymers across the pharmaceutical, food, and energy industries. Within this evolving landscape, Kima Chemical has finalized a series of technical and infrastructure optimizations to reinforce its position as a **Global Leading SODIUM CARBOXYMETHYL CELLULOSE Supplier**. Sodium Carboxymethyl Cellulose (CMC), often referred to as "industrial monosodium glutamate," is a

water-soluble polymer derived from natural cellulose—typically sourced from refined cotton or wood pulp—through a process of alkalization and etherification. Known for its high purity and non-toxic properties, CMC functions as a critical stabilizer, thickener, and water-retention agent. These unique chemical properties allow it to prevent phase separation in liquid formulations and improve the structural integrity of solid materials, making it indispensable in modern industrial chemistry.

Global Industry Trends and the Cellulose Ether Market Outlook

The global market for Sodium Carboxymethyl Cellulose is currently navigating a period of sustained growth. This trajectory is largely fueled by the rising demand for functional food additives and the expansion of advanced pharmaceutical excipients. As environmental regulations tighten globally, the biodegradable nature of cellulose ethers like CMC provides a distinct advantage over petroleum-based synthetic polymers, aligning with international carbon neutrality goals and the "green chemistry" movement.

One of the most prominent trends in the sector is the shift toward high-purity and specialized grades. In the food and beverage industry, manufacturers are increasingly utilizing CMC to replace synthetic stabilizers in dairy products, gluten-free baked goods, and plant-based beverages to meet consumer demand for clean-label ingredients. Simultaneously, the energy sector is requiring higher-performance CMC grades that can withstand extreme high-salinity and high-temperature conditions in deep-well drilling operations. The market is moving away from generic, low-cost additives toward performance-based material selection, where the technical precision of the manufacturer becomes the primary differentiator.

In the Asia-Pacific region, which remains both the largest producer and consumer market, the growth of the construction and detergent industries is further propelling demand. The increasing focus on "super high viscosity" and "extra low viscosity" grades allows for more diverse applications, ranging from lithium-ion battery binders to advanced tissue engineering. This industrial evolution highlights a broader movement: the transition toward high-functionality polymers that offer precise rheological control.

The Strategic Core Advantages of Kima Chemical

Kima Chemical, headquartered in the national chemical production base of Zibo, Shandong, operates with an annual production capacity of approximately 20,000 tons of cellulose ethers. The company’s operational framework is built upon the integration of advanced chemical engineering and automated production management.

Advanced Manufacturing Infrastructure: The production facility utilizes international "one-machine" reaction technology and is managed through a DCS (Distributed Control System) automatic production control system. This technical setup ensures that every batch of Sodium Carboxymethyl Cellulose meets precise specifications, reducing human error and maintaining high stability in product viscosity and purity. The use of a semi-finished product storage silo and fully automatic closed packaging systems eliminates the possibility of pollution during the manufacturing process.

Quality Assurance and Compliance: Kima Chemical has attained ISO 9001 international quality system certification. The company maintains a dedicated laboratory staffed by full-time engineers who monitor critical indicators, including the Degree of Substitution (DS), moisture content, pH value, and particle size distribution. This rigorous oversight ensures that all indicators of the products out of the factory are of high standard and meet the specific regulatory requirements of global markets.

Technical Expertise and Customization: With a technical team possessing over 20 years of experience in cellulose ether chemistry, the company provides personalized product solutions. Through cooperation with academic institutions, Kima Chemical focuses on developing specialized grades that offer improved salt resistance and thermal stability, ensuring that the products remain at the forefront of chemical innovation.

Main Products and Versatile Application Scenarios

Kima Chemical's Sodium Carboxymethyl Cellulose is categorized into various grades—Food, Pharmaceutical, and Industrial—to cater to diverse global requirements. The product provides essential properties of thickening, film-forming, and lubricity across multiple sectors.

Oil Drilling & Energy: In the petroleum industry, Kima's oil-drilling grade CMC acts as a vital fluid loss reducer and viscosifier. It forms a thin, low-permeability filter cake on the borehole wall, which reduces water loss and prevents the collapse of the well. This is particularly critical in high-pressure environments where wellbore stability is paramount.

Food & Nutrition: Known as E466 in the food industry, CMC is used as a thickener and stabilizer in dairy products, ice cream, and instant noodles. It improves mouthfeel, prevents ice crystal growth in frozen foods, and extends the shelf life of baked goods by retaining moisture effectively.

Detergents & Personal Care: In liquid and powder detergents, CMC serves as an anti-redeposition agent. It prevents dirt from re-attaching to fabrics during the wash cycle by creating a protective barrier on the fiber surface. In toothpaste, it provides the necessary rheology and gloss, ensuring a smooth paste that does not dehydrate.

Construction & Ceramics: The product is utilized in ceramic green bodies to improve plasticity and in glaze slurries as a high-efficiency binder. In the construction sector, it improves the workability and water retention of cement-based materials and coatings.

Strategic Customer Partnerships and Sustainable Development

Kima Chemical serves a diverse clientele across more than 20 countries, including regions in Europe, North America, and Southeast Asia. The company's growth is sustained by long-term partnerships with industrial distributors and end-users who require high-volume, high-stability chemical supplies. Each product shipment is accompanied by a Certificate of Analysis (COA), ensuring transparency and alignment with the client's specific formulations.

The company's commitment to reliability is further demonstrated through its localized supply chain and raw material audit system. By ensuring a steady supply of high-quality refined cotton and solvents, the facility maintains control over the final product's quality and provides stability against global market fluctuations. Furthermore, Kima Chemical's plants are designed for safe production with no discharge of wastewater, meeting ISO 14000 environment system standards and contributing to a more sustainable chemical supply chain.

Conclusion

As the global demand for sustainable and high-performance chemical additives continues to rise, the role of specialized manufacturers becomes increasingly significant. Kima Chemical has demonstrated a consistent ability to meet the rigorous demands of the international market through automated

production, specialized research, and a diverse product portfolio. By focusing on the technical refinement of Sodium Carboxymethyl Cellulose and maintaining a robust quality management system, the company provides the essential stability required by modern industry. The integration of advanced DCS technology and a commitment to "Science and Technology Innovation" ensures that the production of cellulose ethers remains both efficient and environmentally responsible. Looking forward, the continued expansion of application scenarios for CMC—from energy exploration to pharmaceutical science—positions the company as a foundational element in the global chemical supply chain.

For additional information regarding technical specifications, product grades, and industrial applications, please visit the official corporate website at: **https://www.kimachemical.com/**

Media Contact

Kima Chemical Co.,Ltd

*********@kimachemical.com

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