

Exploring Vithy's China Top Candle Filter at the China International Chemical Technology & Equipment Fair



Shanghai, China Jan 23, 2026 (Issuewire.com) - China International Chemical Technology & Equipment Fair (CTEF) remains an indispensable platform for unveiling innovative industrial solutions designed to meet the complex challenges associated with modern production. Shanghai Vithy Filter System Co., Ltd has made several noteworthy advances to their Filter products with one being [**China Top Smooth Operation And Reliable Performance Candle Filter**](#). This advanced equipment represents an advanced breakthrough in solid-liquid separation technology, featuring a fully enclosed pressure vessel system to guarantee zero leakage and maximize operator safety when handling hazardous substances. By integrating multiple porous filter elements, this system enables high-precision filtration, cake washing and dry discharge within a single automated cycle. Designed specifically to replace traditional, labor-intensive filtration methods and offer a streamlined approach for processing high-viscosity liquids while recovering valuable catalysts in complex chemical environments, this technology offers an efficient means of processing high viscosity liquids and recovering valuable catalysts more effectively than ever.

Industrial Outlook and Filtration Technology Trends

The global chemical and process industries are currently experiencing a transformative period marked by an ongoing shift towards green manufacturing practices and intelligent production methods. Filtration technology has emerged as a central element in process engineering due to an increasing focus on resource efficiency and environmental footprint reduction across industry. Once considered secondary utility, filtering has now taken center stage as one of the cornerstones of process design. Current industry trends demonstrate a shift from manual, open-style filtration systems to fully automated and enclosed ones. This transition is driven by increasing chemical complexity as well as stringent requirements for high-purity end products in sectors such as electronic chemicals and lithium-ion battery materials.

Due to the circular economy's rise, equipment with high recovery rates for expensive catalysts and active pharmaceutical ingredients is of increasing demand. Industry indicators suggest self-cleaning filtration systems are experiencing faster growth than traditional filter presses; companies increasingly look for solutions which minimize filter aid consumption while optimizing filtrate clarity while using minimal consumables and filter aid. As chemical parks undergo digital upgrades, sensors have become a standard expectation among leading chemical manufacturers; real time monitoring of pressure differentials and flow rates has become a standard expectation of leading chemical producers.

Sustainability also means waste management has become an income stream rather than an expense, with advanced filtration enabling "closing the loop," where water can be recycled and solids reused. To support this industrial evolution, equipment needs to be both durable and highly adaptable to different chemical properties - which reflects an overall trend toward modular and scalable filtration units to remain competitive in an ever-evolving global market.

The Significance of the China International Chemical Technology & Equipment Fair (CTEF)

CTEF serves a crucial function in connecting technological innovation to industrial application. Held annually at Shanghai New International Expo Center, CTEF features over 10,000 square meters of exhibition space and attracts an international audience comprised of engineers, procurement specialists and plant managers from all around the world. CTEF acts as an indicator for the health of chemical machinery industry by displaying everything from petrochemical units and environmental protection equipment to pumps, valves and smart automation systems - acting as a barometer of industry health in one event.

The fair is not merely a commercial exhibition but a comprehensive knowledge-sharing platform. It hosts numerous technical seminars and summits where industry leaders discuss the implementation of carbon neutrality goals within the manufacturing sector. For exhibitors, CTEF provides a high-visibility environment to demonstrate how their equipment integrates into larger, more efficient production lines. The synergy between different sectors—such as the evaporation and crystallization section and the fluid machinery section—allows visitors to explore holistic solutions for waste-water treatment and high-purity chemical production.

The event's reputation for attracting high-quality professional buyers from major international corporations makes it an essential venue for launching high-end equipment. It serves as a meeting point for technical exchange, where the challenges faced by factory floor managers meet the solutions developed by research and development teams. By providing a centralized location for the entire chemical supply chain, CTEF facilitates the rapid adoption of new technologies that improve safety, reduce energy consumption, and increase the overall output of the chemical processing industry.

Core Advantages and Technical Proficiency

Shanghai Vithy Filter System Co., Ltd. distinguishes itself through a rigorous commitment to research and development and a deep understanding of fluid dynamics. The company maintains a robust technical team dedicated exclusively to innovation, ensuring that every filtration system complies with international quality standards, including ISO9001 and CE certifications. A primary advantage of Vithy's technology is the static main body design found in its candle filters. Unlike moving mechanical parts found in traditional presses, these filters rely on pressure and fluid flow, which significantly reduces the frequency of mechanical failure and extends the equipment's service life.

The versatility of Vithy's product line is evidenced by its multi-functional capabilities. A single candle filter unit can perform several distinct operations: filtration, pre-coating, cake washing, drying, and automatic discharge. This versatility is crucial for various high-stakes applications:

New Energy and Lithium Batteries: Facilitating the precision filtration of lithium salts and the recovery of precious metal catalysts used in battery precursor production.

Fine Chemicals: Handling the decolorization and clarification of organic solvents where the containment of volatile organic compounds is mandatory.

Petrochemicals: Ensuring the removal of impurities from lubricating oils and the protection of downstream high-precision equipment.

Pharmaceutical and Food Safety: Providing sterile filtration environments for fermentation broths and ensuring the purity of food-grade additives.

The company's ability to offer customized solutions—ranging from manual units to fully integrated, automated systems—allows it to serve a diverse client base, from niche chemical producers to massive petrochemical enterprises. By focusing on modular design, Vithy ensures that its systems can be easily integrated into existing production lines without requiring extensive downtime for installation.

Conclusion

Throughout its journey to China International Chemical Technology & Equipment Fair, reliable high-performance filtration is of upmost importance for industry progress. China Top Smooth Operation And Reliable Performance Candle Filter represents our dedication to industrial safety, environmental responsibility, and operational efficiency. Shanghai Vithy Filter System Co., Ltd. continues to deliver technical innovation that meets the practical requirements of chemical, pharmaceutical and energy sectors through their strategic partnership. Through its presence at CTEF, the company reaffirms its role as a vital partner for enterprises seeking to modernize their production capabilities and achieve excellence in fluid separation.

For more information on the full range of filtration solutions and technical support, please visit:
<https://www.vithyfiltration.com/>



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