

Vithy Filtration: CE Certified and Leading the Way as a Highly Cost-Effective Candle Filter Manufacturer



Shanghai, China Jan 23, 2026 (IssueWire.com) - Shanghai Vithy Filter System Co., Ltd (Vithy), an industry leader in industrial filtration technology, is setting new benchmarks within the global processing industry. As a **Highly Cost-Effective Candle Filter Manufacturer**, the company has successfully found a balance between advanced engineering technology and economic viability. Vithy candle filter systems represent the pinnacle of liquid-solid separation for industries demanding maximum purity and safety. These enclosed pressure-operated filters offer complete liquid/solid separation within their purifying environment. Vithy provides global enterprises with a superior catalyst recovery solution at reduced capital expense by employing its innovative batch-process design to ensure zero leakage and automated cake discharge, providing them with access to valuable catalysts while minimizing capital expenditures.

The Global Landscape: Industrial Filtration Trends and Future Outlook

At present, the industrial filtration sector is experiencing unprecedented change, spurred on by global

transition toward "Industry 4.0" and heightened environmental, social, and governance (ESG) criteria. Where once considered an afterthought in manufacturing processes, now filtering has become central to process efficiency and resource conservation strategies.

One key driver of today's market is demand for total containment systems. Sectors such as fine chemicals and pharmaceuticals often rely on such equipment to safely handle volatile, toxic or flammable substances without risk to human exposure, leading to a significant drop in use of open filtration systems like manual filter presses in favor of hermetically sealed units like those produced by Shanghai Vithy Filter System Co. Ltd which not only safeguard their workforces but also help prevent sensitive products from oxidation or harmful vapors escaping into the atmosphere.

As well, the rise of "New Energy" industries like lithium-ion battery production has altered filtration requirements significantly. Processing battery precursors and cathode materials requires equipment capable of handling high flow rates, corrosive slurries, precise particle retention, as well as being scalable and robust enough to minimize downtime. As global supply chains for green energy continue to expand, manufacturers require reliable filtration partners who provide scalable yet robust solutions while minimising downtime; manufacturers also seek "Intelligent Filtration," where systems equipped with smart pressure sensors and PLC control units monitor filter cake thickness real time while optimizing backflushing cycles as they occur in real time.

Sustainability is at the core of modern filtration trends. Companies are moving away from disposable filter media towards permanent or semi-permanent solutions that reduce solid waste, including dry discharge of filter cakes and the efficient recovery of liquid solvents - all elements that help enterprises move towards circular economy. Shanghai Vithy Filter System Co. Ltd. embraces these trends by developing systems focused on high density energy savings with minimal material waste production - acting as a strategic partner to future-ready industrial operations.

Engineering Excellence and the Strategic Value of CE Certification

Compliance is a fundamental measure of trust among engineers worldwide. For Shanghai Vithy Filter System Co., Ltd., attaining CE (Conformite Europeenne) Certification stands as proof of their dedication to meeting global safety and quality standards; not merely being awarded this label; instead it's a rigorous validation of their designs, materials selections, pressure bearing capacities.

Vithy's systems utilize complex control valves and monitoring instruments that must function together seamlessly in order to guarantee safe batch cycles, so the certification process includes electrical and mechanical safety testing of these components as part of its certification. European, Southeast Asian and Middle Eastern clients find this certification to be useful when purchasing goods; as it serves as a pre-verified benchmark of quality. Integration ensures that new machinery fits seamlessly into existing industrial plants without risk of noncompliance with local safety regulations. Vithy has demonstrated through its dedication to maintaining these certifications that cost-effective does not equate to compromises on safety or engineering rigor; rather it represents an efficient production process which offers world-class reliability at a highly affordable price point.

Core Competencies and Specialized Product Applications

Shanghai Vithy Filter System Co., Ltd has earned an outstanding reputation by emphasizing "Intelligent Filtration". Their competitive edge lies in their vertically integrated R&D and manufacturing approach that facilitates rapid customization to suit specific chemical and mechanical properties of various fluids.

The Candle Filter: A Flagship Solution

The Vithy candle filter is engineered for precision. Composed of multiple filter elements known as candles within a pressure vessel, liquid passes through filter media while solids accumulate on their surfaces to form cake that acts as secondary filter capturing even fine particles. Once complete, air or gas back-blowing discharges this cake; an "dry discharge" capability highly valued in catalyst recovery where precious metal catalysts must be returned with minimum moisture and maximum purity.

Diversified Product Portfolio

Beyond candle filters, Vithy's primary product lines include:

Self-Cleaning Filters: These include scraper-type and back-flushing systems designed for continuous operation, ideal for high-viscosity liquids such as coatings, inks, and resins.

Microporous Filters: Utilizing advanced membrane technology for fine clarification in the beverage and pharmaceutical sectors.

Bag and Basket Filters: Providing durable, easy-to-maintain solutions for general water treatment and industrial pre-filtration.

Versatile Application Scenarios

Vithy's systems are used in numerous critical industries, from fine chemicals and pesticides, through food and beverage to spirits and lithium batteries. Their systems play a significant role in filtering resins, pesticides and intermediates from fine chemical applications; filtering edible oils for clarity and safety purposes in food & beverage; filtering cathode materials to ensure high levels of purity necessary for battery performance.

Conclusion

Shanghai Vithy Filter System Co., Ltd has proven that high-level engineering compliance can co-exist with an economical manufacturing model. As a Highly Cost-Effective Candle Filter Manufacturer, the company satisfies modern industrial needs for safety, automation and sustainability. Vithy meets CE standards while staying abreast of industry trends such as "Intelligent Filtration", making us not just suppliers of hardware but key partners in efforts to enhance manufacturing efficiency globally. Vithy Filtration remains at the forefront of liquid-solid separation technology by adhering to rigorous research methodologies, stringent quality controls and understanding customer application scenarios. Their commitment to research ensures quality solutions that enable industries to reach their full potential.

For detailed technical specifications, product catalogs, and corporate news, please visit the official Vithy Filtration website at: <https://www.vithyfiltration.com/>

Form QAT_104495, version 03, effective since June 1991, 2003

CERTIFICATE



No. 0P240813.5VFGW78

Test Report / Technical Construction File no. MD-TCF-240802-e0754

Certificate's Holder: Shanghai Vithy Filter System Co.,Ltd
No.285, Yuelong Road, Caoqiao Industrial Zone, Jinshan District, Shanghai

Certification ECM Mark



Product: Filter
Model(s): (see the following annex)

Verification to: Standard:
EN ISO 12100:2010, EN 60204-1:2018

related to CE Directive(s):
2006/42/EC (Machinery)

Remark:

The manufacturer has voluntarily decided to submit its documents concerning the above-mentioned product for verification. Ente Certificazione Macchine confirms that the documentation made available and immediately available for consulting contains data, meeting the requirements of the above-mentioned standard, directly translatable into English. The manufacturer has carried out a self-assessment of the technical documentation and no verification was carried out on the product. This document cannot replace the EC Declaration of Conformity. This document was issued in accordance with regulation (EU)2019/1020 published on the website of www.ecmcert.it and concerning voluntary certifications with a non-notified procedure.

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For online check:



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