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# Global MOF-coated CO? Filter Market Growth 2026-2032

https://marketpublishers.com/r/G47B70525F97EN.html
Date: October 2026
Pages: 144
Price: US$ 3,660.00 (Single User License)
ID: G47B70525F97EN

## Abstracts

The global MOF-coated CO? Filter market size is predicted to grow from US$ 207 million in 2025 to US$ 464 million in 2032; it is expected to grow at a CAGR of 12.2% from 2026 to 2032.

A MOF-coated CO? filter is a structured filtration or gas-separation product in which a metal-organic framework (MOF) serves as the principal CO?-selective adsorption or separation phase and is immobilized on a fibrous substrate, porous membrane, honeycomb, laminate, ceramic support, polymer matrix, monolith, or other engineered contactor through in-situ growth, surface coating, impregnation, slurry deposition, layer-by-layer assembly, or composite incorporation.

The product selectively captures, separates, or concentrates carbon dioxide from industrial flue gas, process gas, biogas, natural gas, or ambient air through physical adsorption, reactive adsorption, or molecular sieving. The captured CO? is subsequently released through temperature swing, steam-assisted regeneration, pressure swing, vacuum swing, humidity swing, or another regeneration process. The statistical scope covers MOF-coated filter media, structured adsorbents, membrane cartridges, replaceable filter elements, adsorption modules, and the CO?-capture portion of modular capture systems.

Key Findings

Structured adsorbent filters and shaped adsorption modules are more commercialized than MOF composite membranes

Cement hydrogen chemicals and direct air capture are the principal early target markets

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## Market Trends

The industry is moving from evaluating loose MOF powders by equilibrium adsorption capacity toward engineering complete filter products around working capacity, cycle time, pressure drop, heat and mass transfer, moisture resistance and mechanical durability. The most commercially advanced architecture is the MOF-coated structured adsorbent filter, represented by Svante's stacked laminate sheets and structured adsorbent beds. These thin structured layers shorten diffusion paths, allow rapid adsorption and regeneration and can be incorporated into rotating contactors that alternate continuously between capture and steam-assisted regeneration. At the same time, Immaterial is eliminating conventional binders and substrates through dense, self-supporting monolithic MOFs, while Nuada, Captivate Technology and Atomis are developing shaped MOF adsorbents for vacuum or pressure-swing systems. UniSieve represents a separate membrane route in which crystalline molecular sieves are integrated into flexible membranes to achieve molecular-size discrimination.

MOF production is also shifting from laboratory batch synthesis toward industrial and continuous manufacturing. BASF produces MOFs for carbon capture at industrial scale and supplies CALF-20 under a commercial agreement with Svante. Promethean Particles uses continuous-flow hydrothermal synthesis to control particle size and morphology while scaling production and is working with Captivate Technology to manufacture steam-stable MUF-16. Immaterial is establishing multi-tonne monolithic-MOF production, while novoMOF, KARGEN, ProfMOF and other specialist suppliers are developing application-specific MOF formulations and scale-up services. The long-term competitive advantage is therefore moving away from discovering a high-capacity crystal alone and toward controlling synthesis cost, shaping yield, coating uniformity, binder selection, activation, module integration and end-of-life replacement.

## Market Dynamics

### Drivers

MOFs provide a highly tunable pore structure and chemical environment, enabling developers to optimize affinity for CO? relative to nitrogen, methane, hydrogen and water. This selectivity can reduce the quantity of inactive gas processed during regeneration and potentially lower energy consumption compared with broadly reactive liquid solvents. Immobilizing the material in a structured filter further reduces particle attrition, dust generation and pressure drop while improving gas distribution and heat

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transfer. Svante’s CALF-20-based process is designed for diluted industrial flue gas and uses direct low-pressure steam for regeneration, while Nuada combines selective MOF sorbents with vacuum pressure-swing adsorption to avoid a conventional high-temperature solvent-regeneration loop. These characteristics support compact end-of-pipe systems and modular capacity additions.

Decarbonization requirements in cement, lime, hydrogen, ammonia, steel, refining, power and waste-processing industries create a broad addressable application base. MOF products are particularly relevant where customers need low water consumption, limited solvent handling, modular installation or selective removal from variable gas compositions. The technology also serves biogas and natural-gas upgrading by separating CO? from methane and can address direct air capture when materials maintain useful working capacity at very low CO? partial pressure. Modular filters and cartridges enable factory production, independent replacement and gradual capacity expansion, creating potential recurring revenue from media replacement, recoating, reactivation and performance upgrades.

Restraints

MOFs must retain their pore structure and selective adsorption properties after exposure to water vapour, oxygen, sulfur compounds, nitrogen oxides, particulates and repeated regeneration. Many laboratory MOFs exhibit high equilibrium capacity under dry pure-gas conditions but lose performance in humid mixed gases or require expensive metal salts, ligands and solvent-intensive synthesis. Functionalization that increases low-pressure CO? affinity can also increase regeneration heat or introduce oxidative and chemical degradation. Before industrial adoption, each material must demonstrate a commercially useful working capacity rather than only a high single-point adsorption value, as well as acceptable product purity, recovery, pressure drop, sorbent loss and cycle life under the actual gas composition.

Forming the MOF into a usable filter can reduce its theoretical performance. Polymeric binders may block pores, dilute active material or alter adsorption kinetics, while coating layers can crack, detach or shrink during activation and cycling. Excessively thick coatings produce longer diffusion paths, but insufficient loading increases filter area and vessel size. Self-supporting monoliths reduce binder dilution but must resist fracture and thermal stress. Composite membranes face additional challenges involving MOF-polymer interfacial defects, selective-layer thickness, module sealing and maintaining permeability-selectivity performance over large areas. The requirement to optimize chemistry and mechanical structure simultaneously creates a longer qualification cycle

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than the development of raw MOF powder alone.

Opportunities

Cement and lime offer a leading point-source opportunity because calcination emissions cannot be removed through renewable electricity or fuel substitution alone. MOF-coated filters can be configured as repeatable modular trains, and rapid-cycle structured media may reduce footprint and steam demand compared with large conventional absorption columns. Hydrogen and ammonia production provide relatively concentrated and stable CO? streams, while refineries, chemicals, steel, pulp and paper, waste-to-energy and gas-fired power create application-specific opportunities for materials tolerant of oxygen, moisture and contaminants. Svante targets cement, lime, steel, aluminum, fertilizer, pulp and paper, oil and gas and hydrogen plants, while Nuada is developing modular systems for cement, biomass and other industrial flue gases.

Biogas and natural-gas upgrading represent a distinct opportunity for pressure-swing and membrane products because the separation objective is to retain methane while removing CO?. Captivate’s MUF-16 has low affinity for methane and other gases, while Atomis has demonstrated a MOF-PSA device capable of operating with humid gas without the dehumidification stage generally required by conventional zeolite adsorption. Direct air capture provides a larger long-term market but imposes more demanding requirements for low-partial-pressure affinity, humidity management and very low fan energy. MOFWORX is commercializing CSIRO technology for capturing CO? directly from air, Atoco is developing solid-state modules based on reticular materials, and Baker Hughes is scaling the MOF-based direct-air-capture technology acquired with Mosaic Materials.

Challenges

The principal commercialization challenge is translating material performance into competitive net capture cost. A filter with high CO? capacity may still perform poorly if it requires long regeneration, deep vacuum, high steam consumption or frequent replacement. Developers therefore need to disclose working capacity over the complete cycle, adsorption and desorption rates, pressure drop, regeneration energy, CO? recovery, product purity, water use, module availability and long-term degradation. Inconsistent testing conditions make comparisons difficult because results are reported at different CO? concentrations, humidity, temperatures, cycle durations and system boundaries. Qualification through thousands of cycles in representative gas remains essential before customers can rely on performance guarantees.

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Market bankability also depends on the ability to manufacture identical material and filter structures at scale. Minor variations in MOF particle size, activation, coating thickness, binder distribution or membrane defects can lead to uneven breakthrough and regeneration across a commercial module. Equipment providers must secure long-term supplies of metal precursors, organic linkers, solvents, substrates and replacement filters while controlling intellectual-property rights across material composition, shaping, coating and process-cycle patents. The emerging industry also faces a market-accounting challenge: raw MOF, formed adsorbent, filter cartridge and integrated capture equipment may pass through several companies, creating potential double counting. Statistical measurement should therefore distinguish external material sales, finished-filter revenue and the attributable contactor value embedded in complete systems.

Industry Chain Analysis

The upstream chain includes metal salts or clusters, organic linkers, functional amines and other modifiers, synthesis solvents, water, catalysts, binders, polymer resins and substrate materials. Common support forms include polymer and glass fibers, expanded fluoropolymer membranes, ceramic honeycombs, metallic channels, porous laminates and membrane supports. Upstream production equipment covers batch and continuous-flow reactors, filtration and washing equipment, solvent-recovery systems, activation ovens, particle classification, slurry preparation, coating lines, roll-to-roll laminators, extrusion equipment and membrane-casting systems. Material suppliers create value through MOF formulation, synthesis scale-up, impurity control, particle morphology, activation stability and consistency between production batches. BASF is an industrial supplier of CALF-20, while Promethean Particles, novoMOF, KARGEN and ProfMOF primarily occupy MOF development, scale-up and material-supply positions.

The midstream chain converts MOF materials into industrially usable media through in-situ growth, washcoating, impregnation, slurry deposition, lamination, compounding, extrusion, pelletization or monolith formation. Manufacturers then assemble filters, cartridges, membranes and adsorption beds with housings, seals, flow distributors and thermal-management components. System suppliers integrate these contactors with blowers, compressors, vacuum pumps, steam generators, heaters, condensers, valves, analyzers and control software. Competitive value is increasingly concentrated at the interface between material and process: the preferred MOF for a steam-assisted rotary filter may differ from the preferred material for a dry VPSA bed or continuous membrane. Svante integrates MOF-coated laminate filters and rotary adsorption

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machines, Nuada and Captivate combine MOF adsorbents with VPSA cycles, UniSieve develops flexible molecular-sieve membranes and Immaterial supplies monolithic MOFs and compact modular systems.

Downstream customers include industrial emitters, natural-gas and biogas processors, direct-air-capture operators, engineering contractors, carbon-management companies and onsite CO? users. Project value continues beyond initial equipment delivery through replacement filters, sorbent replenishment, membrane-module replacement, recoating, regeneration services, process optimization and performance monitoring. Suppliers capable of providing both material and lifecycle guarantees can capture a larger share of value than companies selling undifferentiated MOF powder.

Segment Insights

By product architecture, the recommended classification comprises MOF-Coated Structured Adsorbent Filters, Self-Supporting Monolithic MOF Elements, MOF Composite Membrane Filters and Shaped-MOF Packed Filter Cartridges. MOF-coated structured filters use a separate fibrous, ceramic, metallic or polymeric support carrying a relatively thin active MOF layer; Svante’s laminate-based structured adsorbent beds are the principal commercial example. Self-supporting monoliths obtain their mechanical structure primarily from the shaped MOF itself and should be separated from coated substrates because their volumetric loading, thermal properties and manufacturing process differ. Immaterial is the main commercial developer of this architecture.

MOF composite membrane filters incorporate MOF crystals or continuous MOF-selective layers into a membrane structure and separate gases through differential permeation rather than cyclic bulk adsorption. UniSieve is developing flexible molecular-sieve membranes with tunable molecular cutoffs, although the company’s addressable separations extend beyond CO?. Shaped-MOF packed cartridges contain pellets, beads, granules or other mechanically formed adsorbents loaded into fixed, moving or replaceable beds. Nuada, Captivate and Atomis are most closely associated with this architecture through VPSA or PSA equipment. This four-part classification is more precise than combining self-supporting monoliths with coated filters or classifying every housed product as a cartridge.

By primary separation mechanism, the market is divided into Physical-Adsorption Filters, Reactive-Adsorption Filters and Molecular-Sieving and Membrane-Permeation Filters. Physical-adsorption products use pore size, electrostatic interaction and surface affinity to capture CO? reversibly, generally offering lower regeneration heat but

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potentially lower selectivity at very low CO? partial pressure. Reactive-adsorption products contain open metal sites, amines or other functional groups that bind CO? more strongly and are relevant to dilute flue gas and direct-air-capture conditions. Molecular-sieving and permeation products use controlled pore dimensions and transport rates to allow one gas to permeate preferentially through a selective membrane. The classification should be based on the dominant process mechanism, because functionalized MOFs may combine physical pore filling and reversible chemical interaction.

Downstream Market Opportunities

Cement and lime are expected to remain the leading industrial point-source opportunity because their emissions are large, relatively concentrated and partly inherent to raw-material conversion. Hydrogen, ammonia, refining and chemical processing provide favorable conditions for modular adsorption systems where gas composition and operating load are predictable. Power generation, waste-to-energy and pulp and paper involve larger and more variable gas volumes and require strong tolerance to moisture, oxygen and contaminants. Steel and non-ferrous metallurgy contain several separate emission streams, creating demand for modular filters that can be optimized for different CO? concentrations rather than one centralized capture plant.

Biogas and natural-gas upgrading favor pressure-swing adsorption and membrane systems because they operate above atmospheric pressure and generate a valuable methane-rich product. MOF pore chemistry can be designed to favor CO? over methane, enabling lower methane loss and compact separation equipment. Direct air capture represents the most technically demanding but potentially largest long-term application. It requires high selectivity at approximately atmospheric CO? concentration, low contactor pressure drop and regeneration using low-grade heat, humidity changes or efficient vacuum. The leading near-term commercial opportunity is likely to remain point-source capture, while DAC provides a longer-duration technology and capacity-expansion pathway.

Regional Insights

North America contains the most advanced commercial structured-filter manufacturer and several important material and system developers. Canada-based Svante operates a commercial-scale filter factory and combines CALF-20-coated laminate filters with modular rotary adsorption machines. In the United States, Baker Hughes owns Mosaic Materials' MOF-based direct-air-capture technology, Atoco is developing reticular-

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material solid-state capture modules, Numat provides commercial MOF design, manufacturing and chemical-filtration capabilities, and Framergy supplies MOF adsorbents for gas separation. North America's competitive advantage lies in filter industrialization, process integration and access to industrial carbon-capture and direct-air-capture projects rather than in the number of raw-material suppliers alone.

Europe has the broadest cluster of specialist MOF scale-up, shaping, membrane and modular capture companies. The United Kingdom hosts Nuada, Promethean Particles and Immaterial, covering MOF-VPSA systems, continuous-flow MOF production and self-supporting monoliths respectively. Switzerland hosts UniSieve and novoMOF, while Norway-based ProfMOF provides material development, testing and sourcing services. The region's strength is the ability to connect material chemistry with forming, pilot production and application engineering. However, a significant portion of the European enterprise pool remains at demonstration or early commercial scale rather than high-volume filter production.

Asia-Pacific is developing a distinct ecosystem around MOF materials, pressure-swing equipment and distributed capture. Japan's Atomis, Kobe Steel and Nagase completed a 30-kilogram-per-day MOF-PSA demonstration in 2026 and are evaluating a tonne-scale test. SyncMOF operates MOF-based DAC devices, while Australia's MOFWORX is commercializing CSIRO's Airthena direct-air-capture technology. China's KARGEN develops and produces MOF materials for applications including CO? capture and gas separation. The region currently has stronger evidence of material development, demonstration equipment and pilot deployment than of dedicated high-volume MOF-coated filter manufacturing.

Competitive Landscape Analysis

Svante is the most clearly verified core manufacturer in the narrowly defined MOF-coated CO? filter market. It manufactures CALF-20 and other sorbent-coated structured laminate filters at industrial scale and supplies rotary contactor technology for industrial emissions and direct-air-capture applications. BASF is a strategically important upstream partner and industrial MOF producer, but its role in this market is principally the supply of active MOF rather than independent finished filters. Nuada and Captivate Technology are core modular capture technology providers using proprietary MOF adsorbents in VPSA equipment, while Immaterial occupies the self-supporting monolithic-filter segment. Baker Hughes, through Mosaic Materials, Atoco, MOFWORX and SyncMOF form an early-commercial or development-stage group focused on integrated MOF capture systems. Atomis, together with Kobe Steel as the equipment

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developer, has entered pilot-scale MOF-PSA deployment, and UniSieve represents the MOF composite-membrane route.

Promethean Particles, novoMOF, KARGEN and ProfMOF should be treated primarily as enabling material, scale-up or development-service suppliers unless their MOFs are sold as formed filter elements or attributable components of commercial modules. Numat has genuine commercial MOF-product capability, but its currently emphasized finished products focus on hazardous chemical capture and delivery rather than a disclosed commercial CO? filter, placing it in the extended or pending-product group. Framergy supplies MOF adsorbents for gas purification but has limited evidence of a dedicated MOF-coated CO? filter. Captivate is a valid technology provider, although Promethean manufactures and scales its MUF-16 material. Atoco has disclosed solid-state carbon-capture modules but provides limited detail on internal filter geometry.

The current official information does not sufficiently establish Carbience or MOFapps as commercial manufacturers of qualifying MOF-coated CO? filters, so they should remain in a pending-verification pool rather than the core competitive set. The same caution applies to companies that only conduct computational MOF discovery, sell laboratory powders or provide general research services. Competition should be assessed at product level using active MOF loading, working capacity under humid mixed gas, cycle speed, pressure drop, regeneration energy, CO? recovery and purity, filter lifetime, scalable manufacturing, replacement strategy and full-system references rather than by the size of a company’s MOF patent portfolio alone.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the “MOF-coated CO? Filter Industry Forecast” looks at past sales and reviews total world MOF-coated CO? Filter sales in 2025, providing a comprehensive analysis by region and market sector of projected MOF-coated CO? Filter sales for 2026 through 2032. With MOF-coated CO? Filter sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world MOF-coated CO? Filter industry.

This Insight Report provides a comprehensive analysis of the global MOF-coated CO? Filter landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on MOF-coated CO? Filter portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an

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accelerating global MOF-coated CO? Filter market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for MOF-coated CO? Filter and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global MOF-coated CO? Filter.

This report presents a comprehensive overview, market shares, and growth opportunities of MOF-coated CO? Filter market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

## Segmentation by Type:

MOF-coated Structured Adsorbent Filter

MOF Composite Membrane Filter

Shaped-MOF Packed filter Cartridge

## Segmentation by Separation Mechanism:

Physical Adsorption

Reactive Adsorption

Molecular Sieving and Membrane Permeation

## Segmentation by Application:

Cement and Lime

Power, Waste-to-Energy and Pulp and Paper

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Hydrogen, Ammonia, Refining and Chemicals

Iron, Steel and Non-ferrous Metals

Biogas and Natural Gas Upgrading

Direct Air Capture

## This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

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- Germany
- France
- UK
- Italy
- Russia

Middle East & Africa

- Egypt
- South Africa
- Israel
- Turkey
- GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

- Svante Technologies Inc.
- BASF SE
- Baker Hughes Company?Mosaic Materials?
- Nuada
- Promethean Particles Ltd.
- Immaterial Ltd.

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UniSieve Ltd.

Atoco, Inc.

novoMOF AG

Atomis Inc.

Captivate Technology Ltd.

SyncMOF Inc.

MOFWORX?CSIRO?

Numat Technologies, Inc.

KARGEN

MOFapps AS

Carbience Inc.

Framergy, Inc.

ProfMOF AS

## Key Questions Addressed in this Report

What is the 10-year outlook for the global MOF-coated CO? Filter market?

What factors are driving MOF-coated CO? Filter market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do MOF-coated CO? Filter market opportunities vary by end market size?

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How does MOF-coated CO? Filter break out by Type, by Application?

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