



Meeting Filtration Needs

AT A GLOBAL SCALE





YOUR GLOBAL FILTRATION PARTNER

For over 125 years, Bostik, an Arkema company, has been a leading global industrial adhesive specialist, improving product performance overall while contributing to safer, more efficient and sustainable manufacturing processes.

For the global filtration market, this extensive expertise enables us to provide:

HISTORICALLY-PROVEN PRODUCTS

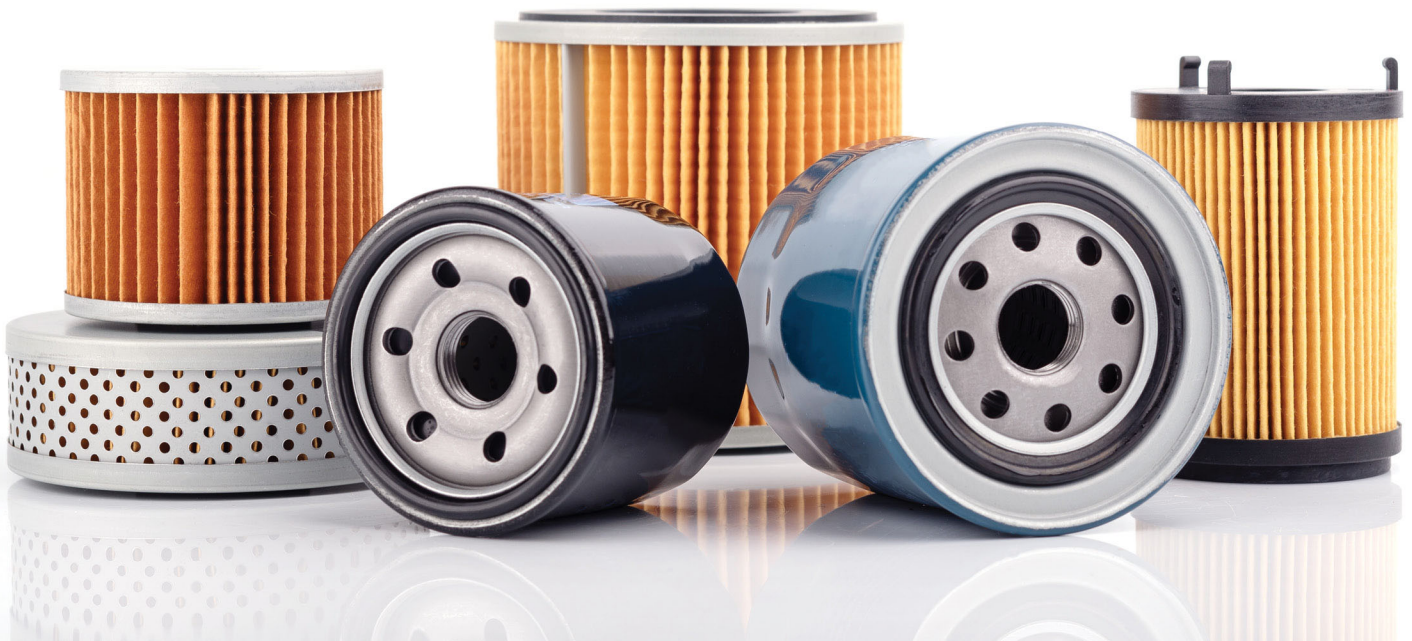
For over 30 years, Bostik has worked directly with filtration customers, fine-tuning our adhesive formulations to ensure they always meet filter application specifications as needs evolve.

GLOBAL PRODUCT LINES

Our broad technology portfolio includes global product lines of polyamides, polyesters and Kizen® technologies. This allows us to address supplier consolidation and global specification alignment needs. We also are able to innovate with our customers through a global R&D network comprised of three international Smart Technology centers and 11 regional centers.

INNOVATIVE PARTNERSHIP

With a continued focus on redefining adhesive technology, our filtration bonding ideas often stem from other industrial markets. This is exemplified in our continued collaboration with Arkema and their technical polymers for water filtration.



PUTTING YOUR NEEDS FIRST

Whether you're an air, oil or water filter manufacturer, our global filtration adhesives are designed with your needs at the forefront.

AIR FILTRATION

- Residential/Commercial: **Address environmental regulations and filter cleaner air** for building occupants with our **low odor adhesive** solutions.
- Automotive Engine: **Improve your filter assembly line performance** with our polyester and polyamide adhesives that possess **fast set speeds and high temperature resistance**.

OIL FILTRATION

- **Reduce material usage, increase production line speeds and improve worker safety** with our thermoplastic solutions.

WATER FILTRATION

- **Mitigate charring, improve filter aesthetics and bond to low surface energy substrates** with our broad adhesive portfolio.

HELPING YOU FIND THE RIGHT SOLUTION

Our range of adhesive technologies for filtration media and assembly applications ensures you'll find the right solution that addresses even the most stringent requirements.

FILTRATION MEDIA

Web adhesives: Web adhesives are a hot melt technology able to bond to a variety of textile-like materials using heat and pressure. Due to their nonwoven structure, they offer a "breathable" bonding layer between substrates, making it a great technology for layering different filter media together.

Resin melt blowing and dot lamination: Another way to laminate the filter layers is to apply the adhesive directly to the media using melt blowing or spraying techniques. These techniques disperse the adhesive into randomized fibers, maximizing the surface area covered on the filter media, while limiting the amount of adhesive add-on that could affect the filter's porosity.

FILTRATION ASSEMBLY

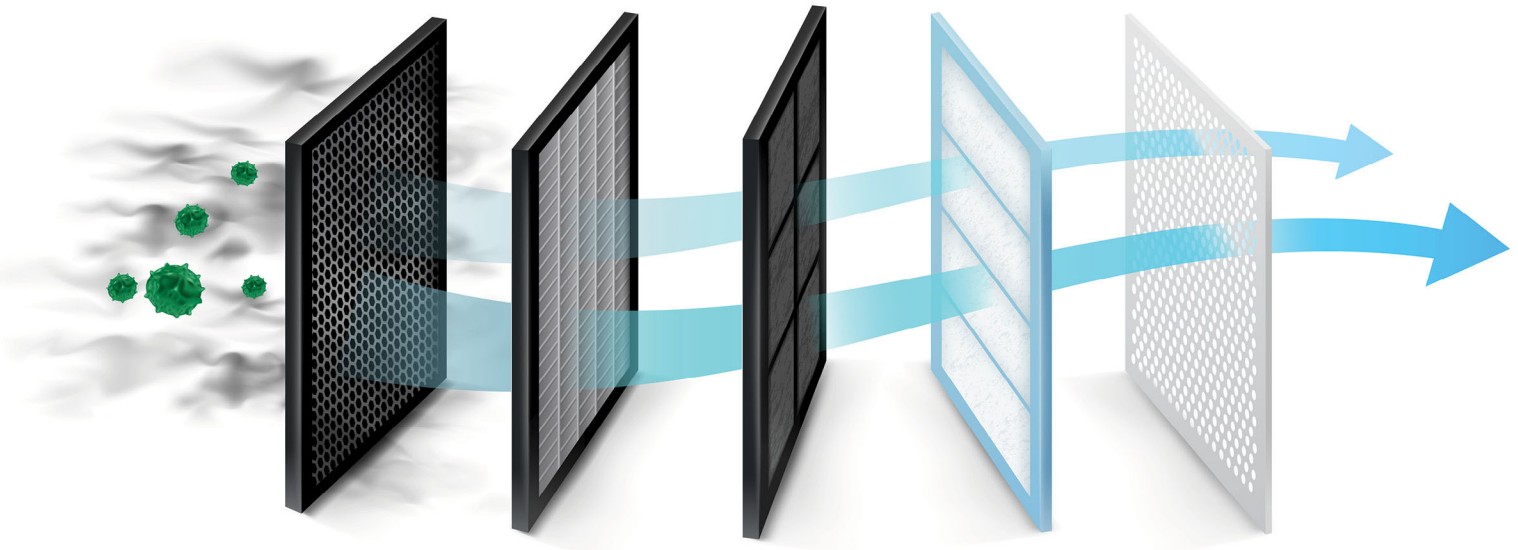
Water Filtration: Bostik has a wide range of adhesives to help with your water filtration needs. Our EVA hot melt adhesives are quick setting and offer excellent adhesion to low surface energy substrates, making them the right solution for consumer water cartridge filter end cap and housing attachment. For industrial grade water filters, our two-part urethanes can meet the challenges associated with filtration assembly. Contact your Bostik representative for more information.

PROVIDING YOU RECOMMENDED TECHNOLOGIES

The chart below details recommended filter assembly adhesive technologies as well as common advantages and disadvantages for key applications.

	OIL FILTER			HVAC, AUTOMOTIVE AIR & CABIN AIR FILTERS			
	Pleat Separation & Media Bonding	End Cap Bonding	Potting	Pleat Separation & Media Bonding	End Cap Bonding & Frame Assembly	Potting	
KIZEN				●	●		<ul style="list-style-type: none"> ✓ High-performance & processability with low odor & white color ✗ Cannot go above 75°C
METALLO-CENE				●	●		<ul style="list-style-type: none"> ✓ High-performance & processability with low odor & white color ✗ Higher cost materials compared to Kizen & EVA
EVA				●	●		<ul style="list-style-type: none"> ✓ Good for minimal pleating standards ✗ Low viscosity & thermal stability with an odor
HMPO				●	●		<ul style="list-style-type: none"> ✓ Foamable & bonds to difficult substrates for cabin air filter edge banding ✗ Long open time
HMPET	●			●*			<ul style="list-style-type: none"> ✓ White color & high temperature resistance ✗ Brittle
HMPA	●	●	●	●*	●	●	<ul style="list-style-type: none"> ✓ Fast setting, great chemical resistance & bonds to metal ✗ Not self-leveling
HMPUR		●			●		<ul style="list-style-type: none"> ✓ Bonds to difficult substrates (PC, PA, PA-GF flame treated) ✗ Reactive technology: Long moisture curing
2KPU		●	●			●	<ul style="list-style-type: none"> ✓ Good leveling & can fill the end cap ✗ Requires more material & processing steps

* Paper cure resistant



GIVING YOU PRO TIPS FOR BEST RESULTS

PRO TIP #1



If you're using a polyamide adhesive and are bonding to metal for oil filter end cap bonding, be sure to preheat the metal in order to achieve maximize bond strength.

PRO TIP #2



If you're in need of an adhesive for filter media, consider polyesters due to their versatile processability and quick bonding, which allow for faster production speeds.

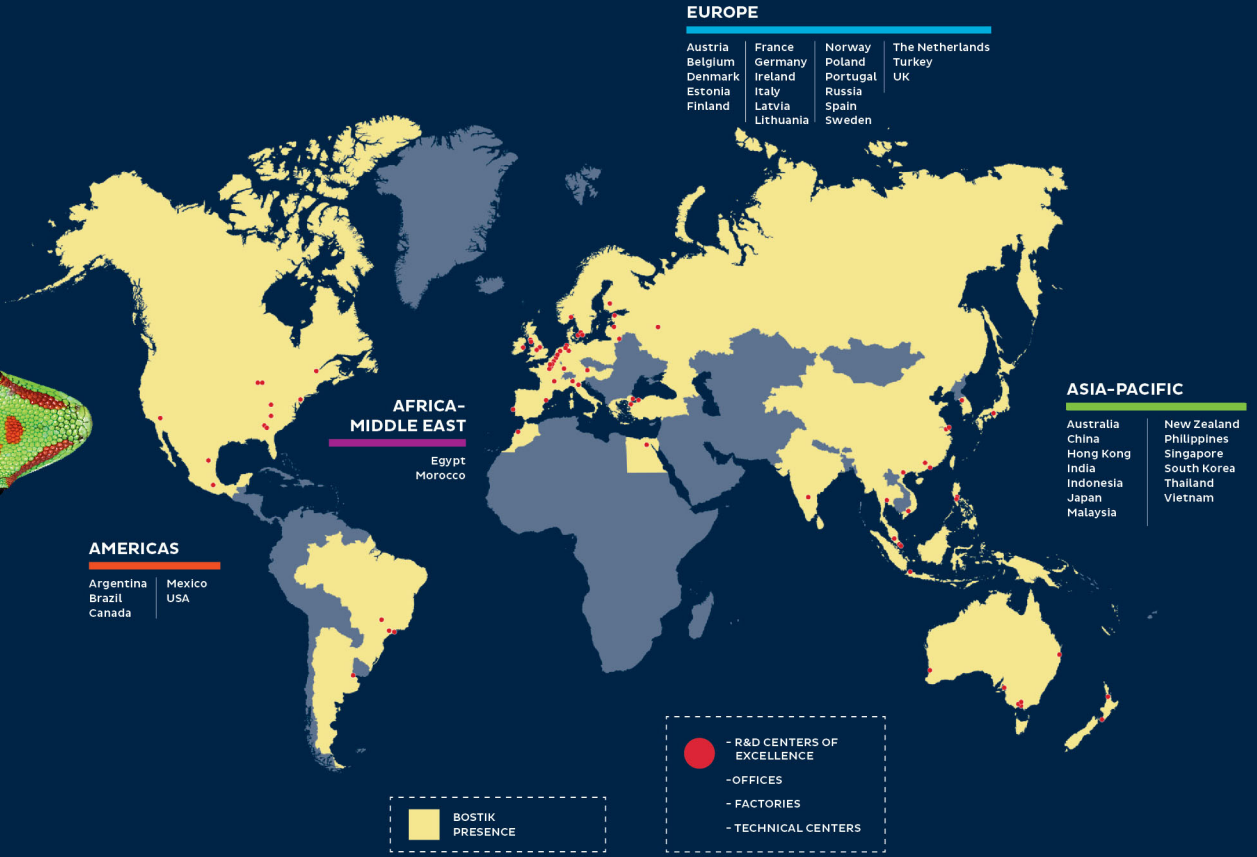
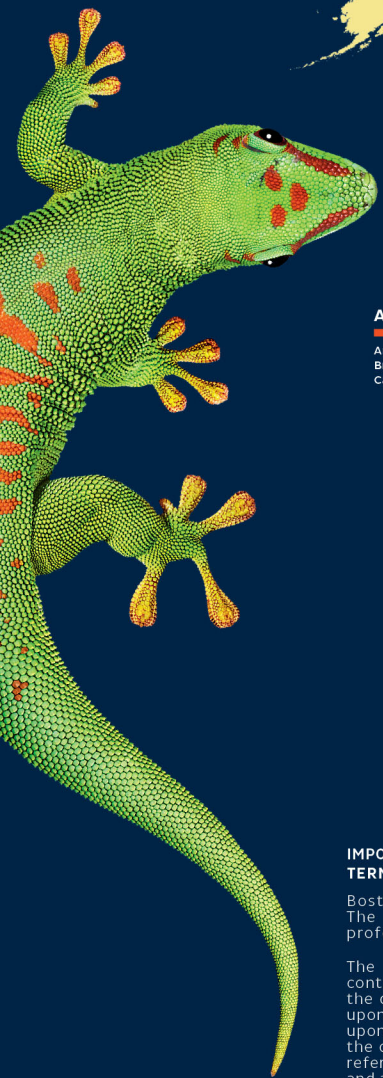
PRO TIP #3



If you're looking for a low odor application for air filtration pleating, consider Kizen® to increase worker safety and end-user comfort.

Contact your Bostik representative to learn more about we can help meet your filtration needs at a global scale.





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