

FILTRATION



AIR AND OIL FILTRATION

Air and oil filtration applications have been around a very long time, and H.B. Fuller has been supplying adhesive products into these markets from the beginning. We continue to listen to our customers needs and participate in industry organizations so that we develop new and innovative adhesives that will be relevant to the evolving air and oil filtration markets.

Our product applications are used around the world and include water-based, two-component polyurethane, hot melt, and hot melt moisture cure adhesives. Whether you are making a product that will produce clean household air, HEPA quality air for an electronics manufacturing environment, or clean engine oil for an automobile, H.B. Fuller has an adhesive solution for you.

H.B. Fuller's team of technical and sales experts listen and collaborate to deliver technical know-how and solutions to help you thrive. We are working tirelessly to invent new products to help you achieve greater success.

We recognize the world's finite resources require us to minimize our impact on the environment while creating value for our customers. To continuously improve our sustainability, we focus on optimizing our facilities' operations and process efficiency and enabling our customers to improve their products and processes through solutions that help achieve their sustainability goals.



AIR FILTRATION PRODUCTS

Product	Key Quality	Purpose/Description	Technology	Set Speed	Viscosity (mP.s)	Viscosity Temperature
HVAC PLEATING						
HL6779HV	Go-to product	High viscosity, bonds to synthetic filter media, conforms to UL900	Hot melt EVA	Medium	42,600	275°F
3055NA	Excellent adhesion to media	Excellent adhesion to filter media, flexible and foamable, compliments filter media	Hot Melt EVA	Medium	8,000	300°F
HL0003	Slow speed pleating	Good adhesion to media and good flexibility	Hot melt PO	Slow	2,100	350°F
HVAC PLEAT STABILIZATION						
PHC8264	Fast setting	Good adhesion to a variety of medias	Hot melt PO	Fast	950	350°F
HL6612	Broad service temperature range	Good creep resistance at high temperature and good flexibility at low temperature	Hot melt polyamide	Medium-fast	2,300	400°F
HVAC PERIMETER SEAL						
HL0705S	Go-to product	Parameter seal for expanded metal to chipboard frame, excellent adhesion to ABS	Modified hot melt APAO	Slow	2,040	350°F
HVAC BAG FILTERS						
HL6329X	Flexible	Fast setting, flexible hot melt for stich sealing bags	Hot melt EVA	Fast	2,000	350°F
HM1597	Excellent adhesion to metal	Bag attachment around metal frame	Hot melt PSA	Slow	7,800	350°F
HVAC FRAME ASSEMBLY						
Swift@tak 48710	Go-to product	Excellent machining for clean running in roll coat or bead extrusion	Water-based PVA	Fast	1,500	75°F
PHC9254	Go-to product	Fast setting speed for frame assembly application	Hot melt EVA	Fast	1,155	350°F
Swift@therm 3H010	Fast setting	Fast setting speed for frame assembly application	Hot melt EVA	Medium-fast	1,250	350°F
HVAC POTTING						
TL0587ANF / TL0587B	Good flow	Low viscosity and fast curing, flexible polyurethane for filter potting and forming end caps	Two-component polyurethane	Fast	850	75°F
2061US / Harter 414 US	Low outgassing, Flame Retardant	Low viscosity and fast curing. Suitable for clean room and other filter applications	Two-component polyurethane	Fast	1,600	75°F
HVAC METAL TO MEDIA BONDING						
HL7200	High mileage	Excellent adhesion and high flexibility enable low application rates for best mileage	Hot melt EVA	Slow	1,125	350°F
HL7216	Flexible	Flexible, long open time, excellent adhesion to metal and media	Hot melt EVA	Slow	2,175	350°F

AUTOMOTIVE AIR AND OIL FILTRATION

Product	Key Quality	Purpose/Description	Technology	Set Speed	Viscosity (mP.s)	Viscosity Temperature
AUTOMOTIVE PLEATING						
HL6608	High heat and chemical resistance	For use in high performance air filters, high heat resistance, rapid set speed, chemical resistance, flexibility	Hot melt polyamide	Medium	2,800	400°F
HL6737	Foamable	Excellent adhesion to media and good heat resistance	Hot melt APAO	Medium	3,500	375°F
AUTOMOTIVE GASKET ATTACHMENT						
HL6281XZP	Go-to product	Excellent adhesion to a wide variety of substrates	Rubber	Slow	5,500	350°F
AUTOMOTIVE PLEAT STABILIZATION AND SPIRAL WRAP						
HL6612	Broad service temperature range	Good creep resistance at high temperature and good flexibility at low temperature	Hot melt polyamide	Medium-fast	2,300	400°F
HL0842S	Excellent metal adhesion	Good pleat separation, excellent adhesion to metal frames	Hot melt APAO	Slow	2,250	375°F
AUTOMOTIVE EDGE SEALING						
HL0705S	Broad service temperature range	Excellent low and high temperature resistance, good adhesion to metals	Hot melt APAO	Slow	1,500	375°F
Swift@therm 3H096	Heat resistance	Excellent heat resistance, good flexibility and high hot tack	Hot melt APAO	Medium-fast	4,750	350°F
HL3244	Fast setting	Fast setting EVA hot melt	Hot melt EVA	Fast	8,390	350°F
AUTOMOTIVE SEAL SEAM, FIRST AND LAST PLEAT						
HL6608	Broad service temperature range	Good heat and chemical resistance	Hot melt polyamide	Slow	2,800	400°F
HL6612	Broad service temperature range	Good creep resistance at high temperature and good flexibility at low temperature	Hot melt polyamide	Medium-fast	2,300	400°F
AUTOMOTIVE ENDCAP POTTING						
UR1100	Heat and fluid resistance	Excellent heat resistance, adhesion to metal and medias, resistance to typical automotive fluids	One-component heat cure polyurethane		120,000	77°F



HVAC FILTER AND COMBUSTION ENGINE AIR/OIL FILTER SEGMENTS AND ADHESIVE APPLICATIONS

Frame Assembly / Perimeter Seal

A chipboard frame is constructed around the edge of the filter media to provide structure.

Metal to Media Bonding

A metal grid that is applied to filter media to give it structure, often creating a wavy media.

Pleating

Adhesive is applied to the media before pleating. Media is then pleated shortly after adhesive application to lock the desired shape in place.

Pleat Stabilization

Adhesive is used along the top of an already folded pleat to secure the folded shape in place.

Side Stitch Seam Seal

Stitching, often on bag filters, need to be sealed for the filter to be effective.

Metal Frame Attachment

Some filters have a metal frame that is adhered to the filter media. Typically more industrial filters.

Edge Sealing

Sealing the filter media to a frame. Cabin air filters can be sealed to media strips to form a frame.

Pleating

Sealing the filter media to a frame. Cabin air filters can be sealed to media strips to form a frame.

Pleat Stabilization / Spiral Wrap

Adhesive is applied to the media after the pleats are pre-shaped. Spiral wrap is for canister filters. The adhesive is often applied over the metal casing.

First and Last Pleat

Adhesive is used along the first pleat to secure the first pleat to the end pleat in a circular canister filter.

Gasket Attachment

Seals the pre-made rubber gasket to the end plates on circular canisters.

Endcap Potting

Seals the media ends to the end plates of circular canisters.



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