

S2.5.2 Creating Solutions for Filter Manufacturing - The Adhesives Application Process

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There are many types of adhesive applications that can be employed to solve problems in the manufacture and use of air and water filters. The Nordson presentation will explain application techniques for single component hot melt adhesives as well as single and two component ambient temperature adhesives.

The presentation will review examples of actual filter types and describe specific applications within each.

1. HVAC Air Filters - Filter Media Frame Construction using foamed EVA's.
2. HEPA Filters – Filter Media to End Cap Potting using two component ambient temperature acrylic adhesive.
3. Automotive Engine Air Filters – Pleated Media Construction using foamed polyamide adhesive.
4. Activated Carbon Air Filters – Affixing activated carbon particles to filter layers with sprayed PUR adhesive.
5. Filter gaskets – Foamed in Place Gasket using single component reactive adhesive.

The audience will come away with a general understanding of how adhesives may be incorporated into filter design and manufacturing.