



Application Background

Synthetic resins e.g., epoxy, alkyd, and phenolic resin are intermediates used in a variety of final products: paint, printed circuit boards, wire coatings, adhesives and plastics. The critical nature of the final product will determine the level of filtration required – it may be 1 µm absolute or 70 µm absolute.

Most resins have viscosities which are far higher than water, ranging from 10 to 10,000 cps and higher. In addition to hard particulate matter, many of these resins contain deformable gelatinous contaminants. *To prevent gel penetration, the cartridge pressure drop must be minimized through the use of pleated cartridges or Profile® II filters.* Oftentimes, the gel filtration takes

place within the process, and a polishing filter is used at the tank car loading area for removing any remaining contaminants.

Prior to selecting a filter medium, the solvent base of the resin must be known since this is usually the most chemically aggressive component in the resin.

Pall Product Recommendations

General Users - Plastics, Adhesives, Coatings, and Paints
 Ultipleat Profile® Filter: 40 µm-100 µm*
 Critical Use: Printed Circuit Boards
 Ultipor GF Plus® U2-20Z* Filter

*Dependent on chemical compatibility

Minimarkets

Resins: Epoxy
Alkyd
Phenolic

Literature References

Profile® II Filters, Literature code: PRO 400



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