HCP FIELD APPLICATIONS

FOR HYDROCARBON, CHEMICAL, AND POLYMER PLANTS

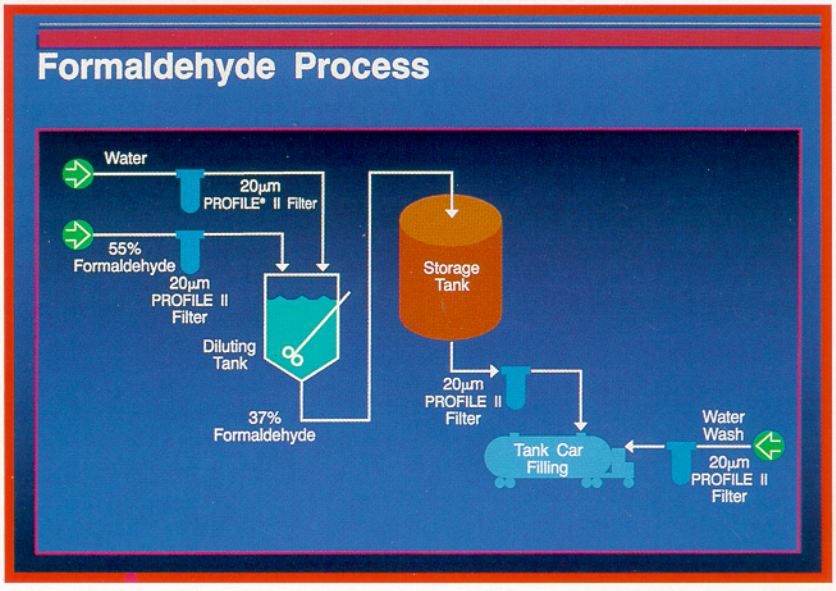
BULK CHEMICAL FILTRATION

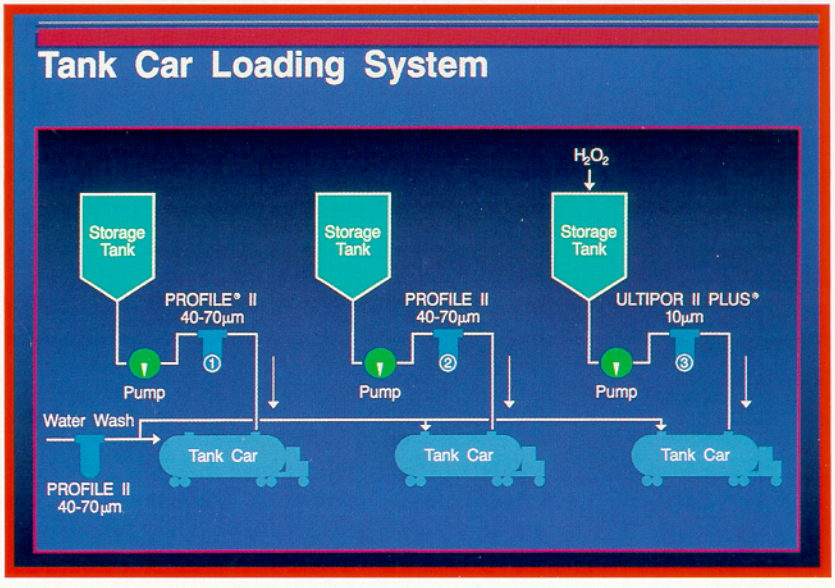
Application Background

Regarding the importance of filtration in chemical manufacturing, there are two aspects that manufacturers are very concerned with:

1. Protecting expensive equipment from fouling, erosion and corrosion which can lead to costly repair and downtime.
2. Producing high clarity products to meet the customer's specification. Since the majority of chemicals are commodity items, cleanliness can be a strong selling point for chemical producers.

For example, in the production of formaldehyde, the major components to be protected are the heater, reactor, absorber, and the distillation column. Also the heat exchanger, which directly follows the catalyst beds, should be protected from entrained catalyst fines. The final product itself is usually inspected for clarity. During colder weather (below 60°F), paraformaldehyde may precipitate, forming a yellow haze in the product. This contaminant should be filtered out.





Pall Product Recommendations

Profile® II Filters, 1-40µm (Sulfuric acid at ambient temperature and formaldehyde)

Mini-Markets

Bulk Chemical Processing, Formaldehyde, Sulfuric Acid

Literature References

"Profile® II Filters", *Literature code: PRO 400C*

"Profile® II Element Data Sheet", *Literature code: E1b*

"Ultipor GF Plus® Element Data Sheet", *Literature code: E7*

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