GORE® Filtration Products

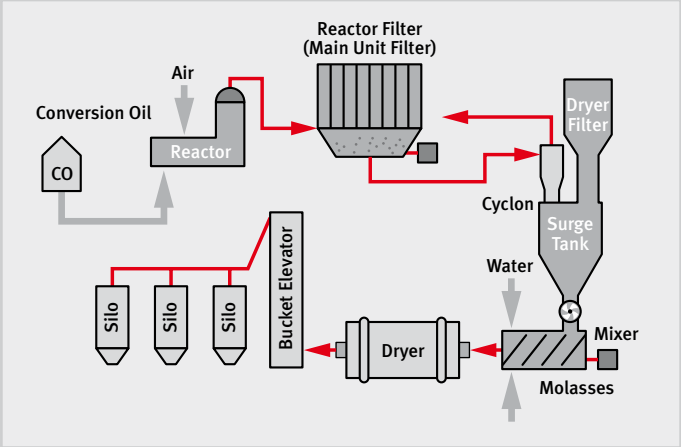
CHEMICALS INDUSTRY

Case history

GORE® High Durability Filter Bags – Carbon Black

Challenge

Carbon black is produced, sized and conveyed in a powdered form. Dust collectors (baghouses) are used to efficiently collect the carbon black particulate and to control fugitive emissions. The manufacturer faced the need to increase airflow through the reactor (to increase production) and wanted to extend the service life of the filter bags in order to save costs.



Solution

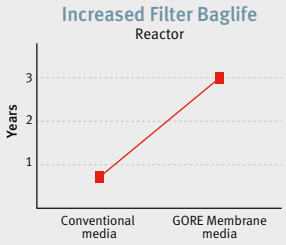
Instead of conventional filter bags GORE™ membrane/Acid Resistant Fiberglass Fabric (9.8 oz) filter bags were used.

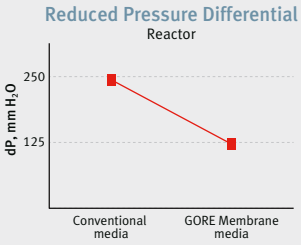
Result

With the use of GORE® Filter Bags the airflow was increased by over 20 %, the pressure differential across the collector was reduced by over 50 % (with higher airflow) and the baglife increased from 8 months to 3 years.

Photo: Pirelli Deutschland GmbH

Application:	Carbon Black (Main Unit Filter/Reactor Filter)
Temperature:	220 °C – 260 °C
Flow rate:	40.000 m^3/hr
Pressure drop:	122 mm H_2O
Filter area:	2.600 m^2
Baglife:	3 years
Filter material:	GORE™ Acid resistant Fiberglass Fabric





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