



Gore™ Filtration Products

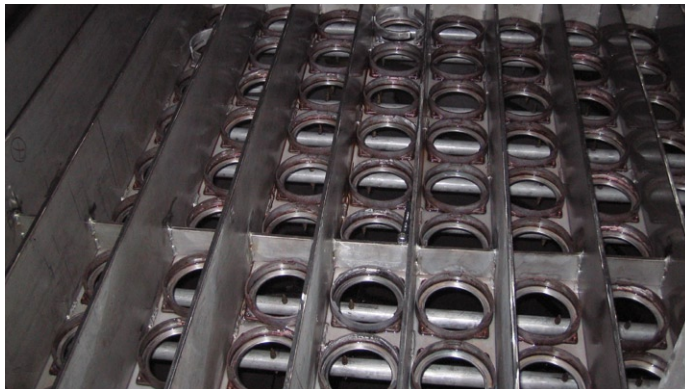
Chemicals Industry

Case history 5

Catalysts

OPTIMIZATION POTENTIAL

During the production of catalyst, suspensions are processed through different kinds of solid-liquid separation steps. Then they are dried, precipitated by a fabric filter and finally supplied to packaging. The abrasive characteristics of the product was quickly wearing out the conventional aramid needle felt filter media used. This resulted in high emissions levels and short bag life of only a few months.



Clean side of the collector after one year of operation.

SOLUTION

GORE™ Acid Resistant Aramid felt membrane filters were installed. They collect abrasive particles on the surface of the filter before they reach the felt layer and cause damage. This maintained the integrity of bags and significantly increased baglife. In addition, emissions dropped to under 1 mg/m. A special construction of the filter bags also eliminated contamination of the product with fibers.

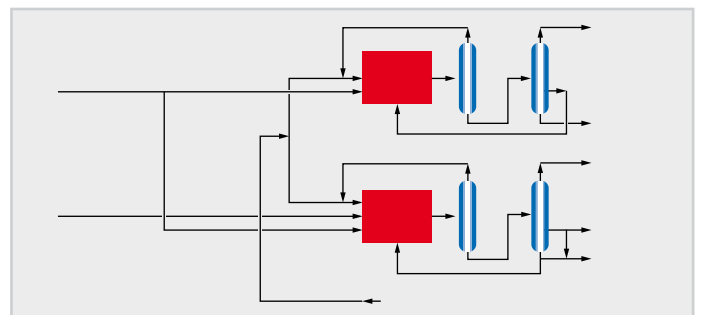
RESULT

GORE™ Filters increased baglife to over 24 months. This resulted in longer maintenance intervals which significantly increased plant productivity.



Photo: Zentrum für Brennstoffzellentechnik GmbH

- Application:** Manufacturing of catalysts for the petrochemistry
- A/C:** 0,8 – 1,0 m³/(m²/min)
- d₅₀ (Product):** 2 µm
- Temperature:** 140°C – 180°C
- Emissions:** <1 mg/m³
- Filter material:** GORE™ Acid resistant Aramid felt



Application of catalytic converters in petrochemistry.

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W.L. Gore & Associates GmbH
Wernher-von-Braun-Str. 18 D-85639 Putzbrunn
Tel.: +49-89-4612-2242 • Fax: +49-89-4612-2308
E-mail: ipd-deutschland@wlgore.com

www.gore.com/filtration

Worldwide Sales and Support Contact Information

Australia +61 2 94 73 68 00	Italy +39 04 56 20 92 42	Singapore +65 62 75 46 73
Benelux +31 7 36 87 24 44	Japan +81 3 33 27 00 11	Spain +34 9 34 80 69 00
China +86 21 64 85 49 90	Korea +82 23 93 34 11	South Africa +27 1 18 94 22 48
France +33 1 56 95 65 65	Malaysia +60 60 37 32 37 75	South America +55 11 51 82 66 99
Germany +49 89 46 12 22 42	North America +1 80 06 38 53 00	Taiwan +88 62 87 71 77 99
India +91 22 6 83 71 87	Scandinavia +46 3 17 06 78 00	United Kingdom +44 15 06 46 01 23

