



Gore™ Filtration Products

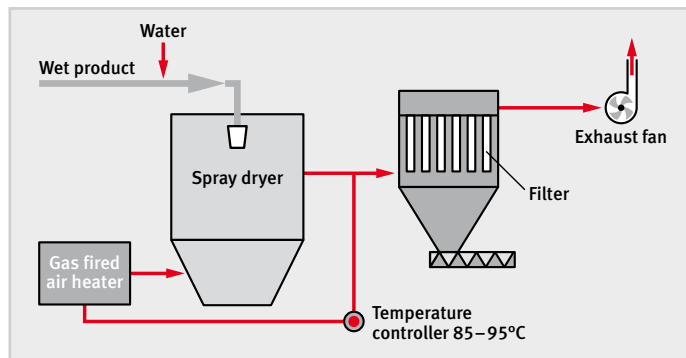
Chemicals Industry

Case history 1

Precipitated Silica

OPTIMIZATION POTENTIAL

A combination of high pulse pressure and a process that ran close to the dew point caused condensation of vapor near the top of the aramid filter bags. This significantly shortened the life of the filter bags. Additional damage to the bags was caused by temperature spikes in the spray dryer.



Function of drying precipitated silica.

SOLUTION

GORE™ Acrylic Bags were installed in order to provide low dust emissions and to handle the increased flow rates. The client's DCS system was optimized to control the temperature spikes of the bag house and safe guards were put in place to stay well within the maximum operation temperature of the bags.

RESULT

With better hydrolysis resistance provided by the GORE™ Acrylic Filter Bags, and an optimized process, the bags lasted longer and lowered investment costs. Low emissions with acceptable pressure has been maintained with a bag life of over 3 years.



Photo: Wolff Walsrode AG

- Application:** Spray drying of precipitated silica
- Process:** Direct Fired Air Heater · Niro Spray Dryer · Bag House · Exhaust Fan
- Number of lines:** 1
- Feed rate:** 4,4 tons per hour
- Flow rate:** 55.000 m³/h
- Temperature:** 62 – 84°C
- Filter area:** 428 m²
- Emissions:** Dust: < 5 mg/Nm³
- Filter material:** GORE™ Acrylic felt

© 2006 W. L. Gore & Associates GmbH
© GORE™, GORE®, GORE-TEX® and designs are trademarks of W. L. Gore & Associates

W.L. Gore & Associates GmbH
Werner-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

