



High Standards. Higher Performance. Highest Temperatures.

## Huyglas from Filtration Specialties, Inc.

### Case History: **Carbon Black Manufacturing**

**INTRODUCTION:** **Huyglas**<sup>®</sup> is ideally suited to efficiently capture very fine particles while coping with the unexpected operating conditions that cause other media to fail. **Huyglas**<sup>®</sup> offers predictable pressure drops and the ability to operate at 550°F (288°C) with excursions to 600°F (316°C).

**PROBLEM:** Carbon black manufacturing has many unique characteristics, including collection of very fine particles and the need to operate at high temperatures. Many production facilities around the world using pulsejet collectors needed a media that was not only very efficient but would also allow high temperature operation above 500°F (260°C) for extended periods. Higher temperatures in the collector reduces the use of contaminating quench water and increases the energy which can be used for the cogeneration of electricity.

**SOLUTION:** **Huyglas**<sup>®</sup> has proven to be the best media suited for carbon black collection because of resilience to production issues/upsets and robust nature. Bags fabricated from **Huyglas**<sup>®</sup> have performed for up to 48 months in carbon black collection. **Huyglas**<sup>®</sup> is resistant to feedstock contamination from leaking preheater tubes, "oily" blacks and condensation in cleaning air that can damage membrane media. **Huyglas**<sup>®</sup> is also less prone to damage during installation and handling than membrane products. **Huyglas**<sup>®</sup> was chosen over other materials for the following reasons:

- Ability to operate at temperatures of 550° F (288°C) and to handle excursions to 600° F (316°C)
- Excellent filtration efficiency
- Problem tolerant
- Cost competitive with membrane media

FSI is a supplier of media to product collector manufacturers such as Aeropulse Inc. and to major bag fabricators world-wide for the carbon black market.

For more information on specific applications of **Huyglas**<sup>®</sup>, please contact FSI.

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