High Standards. Higher Performance. Highest Temperatures.

# HUYGLAS® From Filtration Specialties, Inc.

Case History: Metals Processing

INTRODUCTION:

Metals processing poses a unique set of conditions for filtration media, including temperature variations, the potential for sparking and ignition of the media and a wide range of acidic and alkaline environments which the media must withstand. Huyglas® can be used in a wide variety of metals processing, including smelting, product collection for items such as steel wool and various other operations.

PROBLEM:

A tin smelter located in the Midwestern United Stated utilized polyester felt media in their pulse jet baghouse. The smelting process used sulfur to remove impurities, which was collected on the filter media. Sparks were often emitted as part of the smelting process. These sparks frequently ignited both the sulfur and the polyester media. Bag life was limited to a few months.

SOLUTION

Huyglas® 1701 was installed on the baghouse, providing for significantly longer bag life and better filtration efficiency for the very fine tin and lead emissions. The system operated at a pressure drop of only 3 inches W.G and a gas-to-cloth ratio of 6.8cfm/sq. ft.. Huyglas was chosen due to:

- Ability to withstand sparking/combustion as well as an aggressive environment
- Ability to operate at 550$^{o}$ F with excursions to 600$^{o}$ F
- Durability and longer bag life
- Excellent filtration efficiency on very fine gaseous emissions.

For more information on specific applications of Huyglas®, please contact FSI.



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