



High Standards. Higher Performance. Highest Temperatures.

Huyglas® from Filtration Specialties, Inc.

Case History: **Boilers**

INTRODUCTION: **Huyglas®** has been used in boiler applications for over two decades. With excellent temperature resistance and efficiency characteristics, **Huyglas®** is well suited for the wide range of boilers with pulsejet collectors, from wood-fired to coal-fired.

PROBLEM

Application 1: A wood-fired boiler located in the Northeastern United States, operating at a gas-to-cloth ratio of 3.54 cfm/sq. ft (1.08 m/min), experienced temperature excursions which melted the Ryton bags, requiring frequent bag changes.

Application 2: A stoker-fired boiler located in the United States originally installed woven glass bags in two bag houses, experiencing high pressure drop of 7-8 inches (178-203 mm) w.c. Pulsing was required every 10-20 seconds at 80 psi (5.5 bar). Bag life was less than one year.

Application 3: A baghouse installed on a pulverized-bed boiler located in the Midwestern United States was required to meet a 0.03 lb/MMBtu emission rate. Ryton®, Tri-Loft® woven fiberglass and woven fiberglass bags had been installed on different occasions but none achieved the emission standard required. In addition, the Ryton® showed significant fabric deterioration and the Tri-Loft® blinded within a few months of installation.

SOLUTION

Application 1: **Huyglas®** was installed on the wood-fired boiler allowing for higher operating temperatures and longer bag life.

Application 2: **Huyglas®** was installed on both baghouses, reducing pressure drop to 3-4 inches (76-102 mm) w.c. and pulsing to every 80 second at 60 psi (4.1 bar). Huyglas bags also have significantly longer bag life.

Application 3: **Huyglas®** was installed on the baghouse, meeting the emission requirement and providing over three years bag life.

Huyglas® was chosen over other materials because:

- Longer bag life/good durability
- Ability to operate at temperatures of 525° F (274°C) and to handle excursions to 600° F (316°C)
- Lower pressure drop compared to other media
- Excellent filtration efficiency

For information on a specific application, please contact Filtration Specialties, Inc.

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