

## SUCCESS STORY

### Anode Furnace Australia

#### Problem

Conventional coated filter bags in baghouse were due for replacement after 4.5 years of continuous service. Customer was not aware that the existing filter bags were not of the PTFE membrane laminated type. The baghouse is located indoor and is filtering off gas from naphtha combustion in the furnace. There is also a very tight emission requirement of 5mg/Nm<sup>3</sup> at the baghouse exhaust.

#### Data

*Design Flow	86,400 m <sup>3</sup> /hr	*Air to Cloth Ratio	2.75 : 1
*Inlet Dust Loading	Unknown	*Baghouse Type	Flakt Pulse Jet
*Bag Quantity	720 pcs	*Bag Dimensions	127dia x 6000 lg(mm)

#### Solution

Upon advice by Donaldson, customer realized the benefits of using PTFE membrane laminated filter bags for this baghouse. 720 pcs of TETRATEX® membrane #6262 PPS felt filter bags were installed to meet the minimal emission level and sustain the continuous high temperature of 140 –180 degrees C.

#### Results

The TETRATEX® membrane #6262 PPS felt filter bags operate at 180 deg C continuously. An emission monitor is installed on the outlet and thus far the emission level has not exceeded the maximum of 5mg/nm<sup>3</sup>. The TETRATEX® membrane filter bags are pulsed on demand, at a compressed air pressure of 300 kPa . Bags are still in operation since installation in Nov 2004.

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