CERAFLIL® CERAMIC FILTER ELEMENTS

....the hot gas filtration solution

MEET CURRENT AND FUTURE REGULATIONS FOR DUST, ACID GAS, NOx AND DIOXIN EMISSIONS

EASY REPLACEMENT OF FILTER BAGS TO IMPROVE FILTER PERFORMANCE

ESTABLISHED TECHNOLOGY WITH PROVEN TECHNICAL AND ECONOMIC BENEFITS
**Cerafil Ceramic Filter Elements Are:**
- An established gas filtration technology
- Rigid candles employed like fabric bags in filtration plant
- A robust filter medium with a long life
- Capable of operating at elevated temperature
- Applicable to both air pollution control and process filtration duties
- Used in 100's of plants worldwide

**Avoid the Burning and Blinding Associated with Fabric Bags**

**Duties:**
- Air pollution control
- Product recovery
- Product collection
- New filter plant
- Bag filter retrofit
- Electrostatic precipitator retrofit

**Key Cerafil Element Dimensions**

<table>
<thead>
<tr>
<th>Length</th>
<th>Flange Height</th>
<th>O/D</th>
<th>Area m²</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000</td>
<td>20</td>
<td>90</td>
<td>0.19</td>
</tr>
<tr>
<td>1250</td>
<td>20</td>
<td>90</td>
<td>0.23</td>
</tr>
<tr>
<td>1500</td>
<td>20</td>
<td>90</td>
<td>0.28</td>
</tr>
<tr>
<td>1800</td>
<td>30</td>
<td>150</td>
<td>0.83</td>
</tr>
<tr>
<td>2250</td>
<td>30</td>
<td>150</td>
<td>1.06</td>
</tr>
<tr>
<td>3000</td>
<td>30</td>
<td>150</td>
<td>1.40</td>
</tr>
</tbody>
</table>

**Cerafil Benefits:**
- Wide application temperature range to suit the requirements of the process
- Avoid the problems associated with acid dew points and fabric bag temperature limitations
- Maintain gas temperature for downstream processes or energy recovery
- Highly efficient particulate filtration to meet the most stringent emission standards
- Inert oxide formulation for excellent corrosion resistance
- Excellent acid gas scrubbing capability with a dry sorbent
- Largest range of available sizes

**Cerafil Products:**

**Cerafil XS**
- Inert ceramic fibre base
- Many references/widely applicable
- Optimal removal of particulate and acid gases at temperatures at up to 450°C

**Cerafil Green**
- Made from engineered mineral fibres
- Strong and consistent
- Excellent where a robust filter medium is needed and where ceramic fibres cannot be used

**Cerafil TopKet**
- Revolutionary product with built in catalyst
- Simplified abatement due to multiple pollutant removal
- Simultaneous removal of particulate, acid gases, NOx and dioxins
WHY THROW AWAY VALUABLE ENERGY?

Cerafil elements are applicable to a broad range of processes where efficient filtration at an elevated temperature is required.

Applications include:
- Waste incineration
- Gasification and pyrolysis
- Metal smelting
- Mineral processing
- Glass furnaces
- Thermal soil cleaning
- Fluidised beds
- Catalyst protection

Particulate emissions are typically less than 2 mg/m³ meeting the most stringent pollution control legislation.

Cerafil TopKat is the revolutionary new ceramic filter product from Madison Filter. By combining established ceramic filter and selective catalytic reduction technology TopKat offers the end user considerable scope to save cost and valuable space.

Cerafil TopKat can reduce NOx at up to 95% efficiency and dioxins at greater than 99% efficiency. When used in combination with a dry sorbent, for acid gas scrubbing, Cerafil TopKat is a truly multi-functional filter.

SINGLE TREATMENT PLANT
REDUCED CAPITAL EXPENDITURE
REDUCED OPERATING COSTS

COST OF OWNERSHIP MINIMISED

COMPLIANCE MADE EASIER

BEST IN CLASS FILTRATION