

CERAFIL® CERAMIC FILTER ELEMENTS

....the hot gas filtration solution

**MEET CURRENT AND FUTURE REGULATIONS FOR
DUST, ACID GAS, NO_x 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			
Length mm	Flange Height mm	O/D mm	Area m ²
1000	20	60	0.19
1250	20	60	0.23
1500	20	60	0.28
1800	30	150	0.83
2250	30	150	1.05
3000	30	125	1.17
3000	30	150	1.40

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 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 TopKat

- 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?

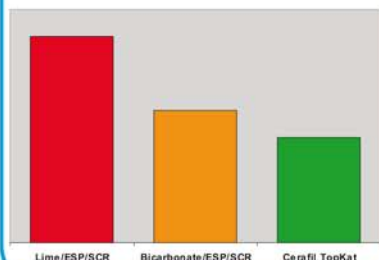
Cerafil elements are applicable to a broad range of processes where efficient filtration at an elevated temperature is required.

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.

Comparative APC cost for a Cerafil TopKat glass furnace duty



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 NO_x 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



**IChem^E
AWARDS
2005**
SAFETY+ENVIRONMENT
BEST PRACTICE+INNOVATION
WINNER

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