



# FIREFLY CS1255F

Hot Gas Big Tube Filters

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**Product Description**

CS1255F products are manufactured from 100% exonerated Alkaline Earth Silicates (AES) fibres, with proprietary high temperature bonding agents.

CS1255F has been formulated to produce Big Tube Filters exhibiting excellent strength: weight ratios and toughness, even at extreme temperatures.

The CS1255F Big Tube filters can be found across various industries, where harmful pollutants are required to be filtered from hot gases given off during incineration processes in order for companies to meet emissions targets. This is an exonerated product in accordance with the European Directive 97/69 EC on Classification, Packaging, and Labelling of Dangerous Substances.

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**Product Advantages**

- Low Thermal Conductivity
- Thermal Shock Resistance
- Free of harmful fibres
- High Temperature Resistance
- Elements do not Tear
- Superior Resistance up to 1,000°C
- 100% AES Filters
- 100% Spark Proof
- >99.99% Filtration Efficiency
- Cleaner Emissions
- Unique Microstructure
- Resistant to Most Chemicals
- Sizes Available for a Large Range of Applications

## Approved Applications

Hot gas filter elements for Atmospheric Pollution Control (APC) or In-line Equipment Protection (ILEP)

APC:

- Incineration of industrial and chemical waste
- Incineration of clinical, animal and domestic waste
- Vitrification of incinerated waste
- Metallurgical processing – ferrous and non-ferrous
- Precious metal recovery
- Soil remediation and reclamation
- Coal derivative manufacture
- Wood waste burning
- Glass, brick and cement industries
- Crematorium incinerators

ILEP:

- Gasification and pyrolytic processes
- Waste to energy plants
- Biomass plants, Glass manufacturing plants, Power plants, Chemical plants, etc.

## Physical Properties

Property	Units	Typical value
Temperature Capability	°C	> 1000
Density	kg/m <sup>3</sup>	450
Pressure Drop (of virgin filter)	mm water	35 (velocity = 12.6mm/s)
Loss of Ignition	% @ 70°C	6.3
Typical Air Permeability	[l / dmm <sup>2</sup> ] @ 200 Pa	8
Filtration Efficiency	%, above 1 micron	>99.99
Minimum Particle Size	micron	<1
Output Emissions	mg / m <sup>3</sup> typical	<3

## Storage

- To be stored in a dry location
- Take care not to exceed safe working loads and heights for storage shelves and racks

## Working Life

Service life depends on the application.

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**ARCLEX**

**FEROFORM**

**FIREFLY**

**NITRASIL**

**REFEL**

**REFRACTORY  
PRODUCTS**

**REFRAVER**

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**Advanced materials.**  
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