



**Filturon BT**  
CS1255F

# Filturon BT

## CS1255F

### *Product*

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Filturon BT (CS1255F) Hot Gas Filter Elements are engineered for high-performance filtration in applications with operating temperatures up to 1,000 °C. These filters can handle much larger gas volumes and are able to replace most commonly used bag filter sizes.

They deliver exceptional efficiency, safety, and reliability. Designed to remove fine particulates, heavy metals, dioxins, and acid gases, these filters contribute to cleaner emissions and help meet stringent environmental regulations.

The CS1255F grade is produced from unique non-ceramic materials, entirely free of refractory ceramic fibers (RCF), making the elements 100% safe to handle and dispose of. The structure is reinforced with high-temperature bonding agents for enhanced durability and stability under demanding conditions.

This product is exonerated under European Directive 97/69/EC on the Classification, Packaging, and Labelling of Dangerous Substances.

### *Product Advantages*

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- Outstanding chemical resistance
- Low pressure drop
- Thermal shock resistance
- Free of harmful fibres
- Tear-proof elements
- Superior resistance up to 1,000°C
- > 99.99 % filtration efficiency
- Cleaner emissions
- Unique microstructure
- Multiple size options available
- Cleaned by reverse pulse
- Self-supporting structure – no need for metal cages in corrosive atmospheres
- Totally incombustible – 100% spark and fireproof

## Applications

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TenmatWear Filturon hot gas filters are trusted across a broad range of industries, including:

- Clinical, municipal, and hazardous waste incineration
- Gasification and pyrolysis systems
- Glass, brick, and cement manufacturing
- Metal and mineral smelting and refining
- Soil remediation and waste-to-energy processes
- Thermal cleaning and other chemical processes

## Performance Specifications

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Parameter	Value
Density	500 kg/m <sup>3</sup>
Weight	see below
Max. temperature	1000 °C
Filtration Efficiency	> 99.99 %
Filtration Capability	< 1 µm particle size
Typical emissions	< 1 mg/m <sup>3</sup>
Pressure Drop (Virgin Filter)	30 mm water @ 12,6 mm/sec face velocity

30 mm of water column [mmH<sub>2</sub>O] = 0.30 kPa = 3.0 mbar [millibar]

### Candles - Filturon (CS1255F)

External diameter [mm]	150	150	150
Internal diameter [mm]	110	110	110
Length [mm]	1,800	2,400	3,000
Flange diameter [mm]	190	190	190
Surface area, m <sup>2</sup>	0.83	1.11	1.40
Weight, kg	8.1	9.8	13.1