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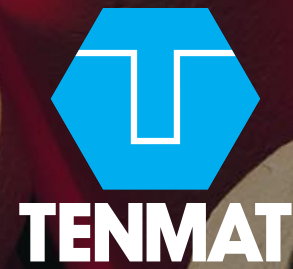
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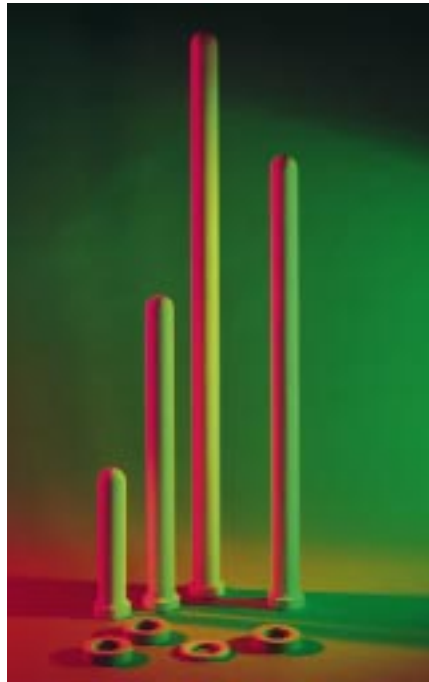
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FIREFLY HOT GAS FILTERS



FIREFLY HOT GAS FILTERS are HEPA rated rigid surface filter tubes developed for operating temperatures up to 1600°C. The size range available is suited to small and large gas volumes and research has produced materials with optimum dust filtration and regenerative efficiencies, resulting in emission dust levels of less than 1mg/m³. The materials used in the manufacture of the filters have been chosen to provide maximum high temperature strength without sacrificing filtration efficiency and low pressure drop characteristics. Furthermore only exonerated materials are used in the production of FIREFLY filters and seals.

The low density porous media of inorganically bonded granular minerals and fibres are resistant to temperatures

far in excess of those found in normal practical applications. The monolithic candle and large tube elements are self-supporting, do not need metal cages and are produced with or without flanges for horizontal or vertical configurations. They are all highly resistant to thermal shock and can be regenerated, at high pressure by reverse air or jet pulse cleaning. TENMAT can also supply venturi for all sizes of elements. Details on request.

All FIREFLY Filter elements can be used with reagents to collect acid gases and dioxins, and effect particulate agglomeration for improving surface filter performance. They are capable of withstanding extreme thermal and chemical conditions.

HGF element seals are available to suit all elements in RF1000FL and RF1200FL qualities. RF1000FL seals are suitable for all normal atmospheric applications but RF1200FL quality may be necessary in reducing atmospheres.

TENMAT produces a wide range of thermal insulation and heat resistant products for protection of filter box casings and tube sheets. Engineering Ceramics produces nozzles in Refel Silicon Carbide for Flue Gas De-sulphurisation Spray Towers.

TENMAT is a leading manufacturer of specialised high performance, non-metallic engineering materials and components, supplied to a broad cross-section of industrial applications throughout the world.

TENMAT's activities are divided into 3 main divisions: Engineering Ceramics, Wearing and Bearing Composites and High Temperature Composites including Refractory Products, Millboards and Intumescent.

Further information on any of these products is available from TENMAT's Technical services.



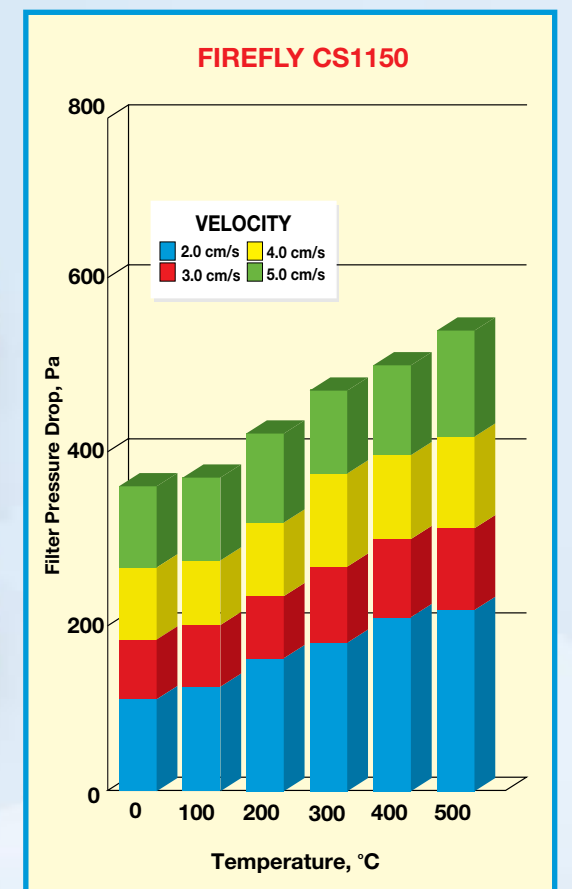
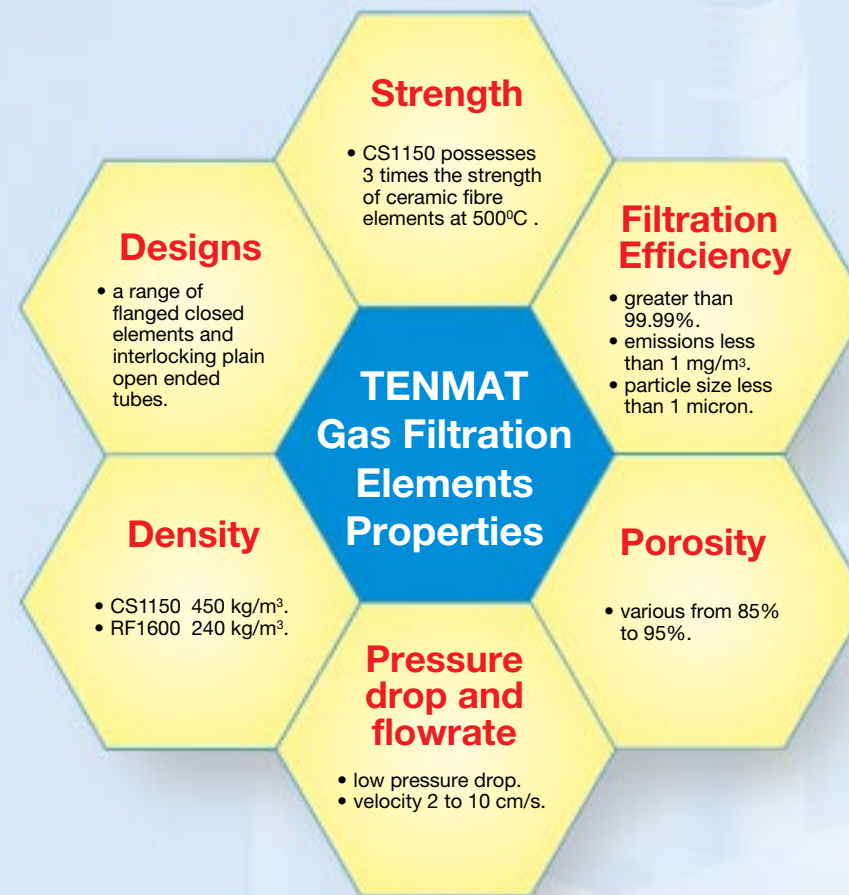
BENEFITS

- High temperature capabilities up to 1600°C.
- Incombustible - spark resistant and fireproof.
- High filtration efficiencies HEPA rated.
- Chemical resistance including acid gases.
- Rigid elements for longer life.
- Cleaned by reverse jet of compressed air.
- Totally resistant to thermal shock.
- 'Installation and operation manual' on request.

APPLICATIONS

- Incineration of industrial chemical and clinical waste.
- Metallurgical processing - ferrous and non ferrous.
- Brick manufacture.
- Cement Industry.
- Waste Gasification.
- Soil sterilisation.
- Coal derivative manufacture.
- Wood burning.

A range of ancillary products for gasketing and sealing are also available. If you require any further information then please do not hesitate to contact us. The operating temperature of CS1150 is 1150°C, RF1600 is 1600°C, further details on respective technical data sheets are also available on request.



The clean filter pressure drop is dependent upon the filter face velocity and operating temperature. TENMAT filter elements exhibit a uniquely low pressure drop with respect to velocity and temperature, and this is illustrated on the graph.

TENMAT manufactures a wide range of element designs in a choice of exonerated refractory materials tailor-made to customer requirements, without the use of asbestos or ceramic fibre.

HEALTH AND SAFETY

TENMAT Refractory Products are produced from a wide range of exonerated mineral and alumina fibres. The Occupational Exposure standards for the grade being used should be observed at all times.

UK Health & Safety data sheets are available on request.

FIREFLY filters are available in the following standard dimensions: other sizes are available on request

	CANDLES					BIG TUBES			BIG TUBES		
Internal Diameter (mm)	40	40	40	40	40	95	95	95	110	110	110
External Diameter (mm)	60	60	60	60	60	125	125	125	150	150	150
Length (mm)	305	650	1000	1250	1500	1800	2400	3000	1800	2400	3000
Flange Thickness (mm)	20	20	20	20	20	30	30	30	40	40	40
Surface Area (m ²)	0.06	0.12	0.19	0.23	0.28	0.69	0.93	1.16	0.83	1.11	1.40
Seals available	YES					YES			YES		