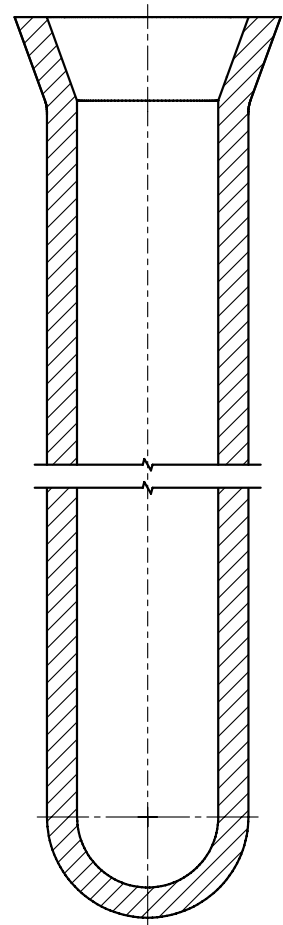


FILTRATH®

Ceramic Filter Elements
for Filtration of Hot Gases



METALS



CERAMICS



GLASS



SPECIAL
FURNACES



FUELS
CHEMICALS
ENERGY

top technology
creates confidence

RATH

FILTRATH® FILTER ELEMENTS

FILTRATH® filter elements are made of high-temperature vacuum formed wool and developed for the filtration of hot gases.

They are highly permeable and extremely lightweight. The high porosity of FILTRATH® provides excellent filtration performance complying with the most stringent emission control standards.

- › Designed for high temperatures
- › 100 % spark resistant
- › Extremely lightweight
- › Strong and durable
- › Emission values < 1 mg/Nm³
- › Highly efficient

FILTRATH® filter elements are available in two grades

Information «

Grade	Raw Material Base	Chemical Analysis		Max. Application Temperature*
		weight%		
FILTRATH® ASW	Aluminum Silicate Wool	Al ₂ O ₃	44	1,000
		SiO ₂	56	
FILTRATH® AES	Calcium/Magnesium Silicate Wool	CaO/MgO	25	1,000
		SiO ₂	75	

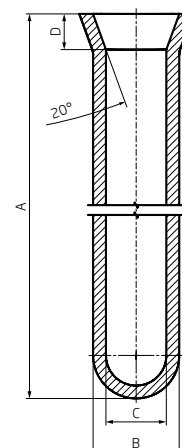
* the maximum temperature limit depends on the application conditions. For support/clarification please contact Rath.

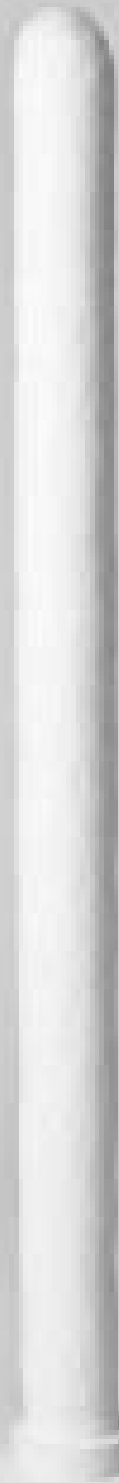
FILTRATH® Filter Element Dimensions (other dimensions on customer request)

Information «

Dimensions

Dimensions		60	150	150	150	150	150
Outer Diameter (B)	[mm]	60	150	150	150	150	150
Inner Diameter (C)	[mm]	40	100	110	110	110	110
Element Length (A)	[mm]	1,000	1,000	1,600	1,950	2,200	3,000
Flange Geometry	[-]						
Flange Length (D)	[mm]	20	65	65	65	65	65
Filtration Area	[m ²]	0.18	0.44	0.72	0.92	1.02	1.35
Weight/Element	[kg]	0.3	2.2	3.8	5.2	5.6	6.8





Applications of FILTRATH®

Filter Elements

- › Waste incineration plants
- › Power generation and combustion plants
- › Pyrolysis and gasification processes
- › Production and recovery of particulate materials such as catalysts or pigments
- › Protects catalysts in catalytic processes
- › Calcium carbide production
- › Emission control in smelting and fluidized bed processes (e.g. glass and metal smelting)
- › Clinker cooling in cement industry
- › Production of powdered plastics

Advantages of dry particulate separation at high temperatures

- › Economic benefits of maintaining the process heat for the downstream processes
- › Preserves gas and/or dust properties employing dry particulate separation
- › Cost effective protection of catalysts in catalytic processes
- › Avoids corrosion and clogging of downstream equipment
- › Economic and environmental benefits due to elimination of waste water and sludge disposal
- › Compact design

FILTRATH® Filter Elements make the difference

- › Raw materials and production processing held to the highest quality standards.
- › Safe operation at high temperatures due to non-flammability and excellent thermal shock resistance
- › Uniform permeability with low pressure drop
- › Excellent reverse jet-pulse cleaning performance
- › High mechanical stability and resistance to corrosive environment
- › Long service life
- › Best price/performance ratio in comparison to other ceramic and metallic filter elements
- › Bio persistent alkaline earth silicate wool is RCF free and therefore eliminates health concerns.

Rath services

- › Application consultancy
- › Laboratory services: e.g. examination of dust properties, used filter elements etc.
- › Filtration tests on-site
- › Preventive inspection of filter elements on-site

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