Van Borselen Filters Activated Carbon Filter VBPAK

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Activated carbon filter VBPAK from Van Borselen Filters

- Van Borselen Filters VBPAK activated carbon filters are used to remove oil vapours and hydrocarbons from compressed air and gases.
- The adsorption filters Van Borselen Filters VBPAK consist of 2 filter stages. Particles are retained in the depth filter stage, consisting of a microfibre vial. The second filter stage consists of activated carbon, which adsorbs oil vapours, hydrocarbons and germs.
- With appropriate pre-filtration, a residual oil content of < 0.003mg/m3 is achieved.

Fields of Application

- Chemical and petrochemical industry
- Pharmaceutical industry
- Breathing air generation
- Prefiltration of sterile filters
- Filling plants
- Food and beverage industry
- Packaging machines
- Process Industry
- Instruments and control air

Features and Benefits

- Flow distributor at inlet
- Embedded activated carbon
- Depth filter stage made of microfibre fleece

Recommended Application Temperature:
+10°C...+40°C (Tmax = +60°C)

Separation Efficiency
Residual oil content < 0.003 mg/m3, with appropriate pre-treatment

Recommended Pre-Treatment
Residual oil content < 0.01 mg/m3 , e.g. by submicrofilter SMF

Initial Differential Pressure at Nominal Capacity:
0,07 bar

Features	Benefits
High packing density and internal Surface of the activated carbon foam	High adsorption capacity and improved efficiency ensure optimum separation performance over the entire lifetime
Flow distributor at inlet	Reduces flow resistance and ensures optimum flow to the adsorption material
Activated carbon embedded in carrier foam	Avoidance of activated carbon abrasion
Depth filter stage made of microfibre fleece at the outlet of the filter	Improvement of particle separation class 2 according to ISO8573- 1 achievable

Materials	
Adsorption step:	Grain activated carbon, embedded in PUR ester foam
Filter medium:	Borosilicate glass fibre material
Supporting fabric:	Polyamide fleece
Bonding:	Polyurethane
2 O-rings:	Perbunan. Free of silicone and release agents (standard)
Supporting sleeves:	Stainless steel 1.4301/ 304

Adsorption Effect Based on VBPAK Examples	
Ethane	Slight
Toluene	Very good
Acetic acid	Very good
Methanol	Well
Acetone	Well
Isopropyl ether	Very good
Methyl acetate	Well

Adsorption Effect Based on VBPAK Examples	
Sulphuric acid	Very good
Hydrogen sulfide	Weak
Chlorine	Well
Freon	Weak
Amonia	Weak
Citrus fruits	Very good
Perfume	Very good

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Argonstraat 66
2718 SN Zoetermeer

PO box 3-2700
AA Zoetermeer

Telefoon +31 (0)79 3412314
Telefax +31 (0)79 3412892

Email: info@vanborselen.nl
Web : www.vanborselen.nl