

ultrafilter

activated carbon filter AK



Activated carbon filter AK from ultrafilter

■ ultrafilter activated carbon filters are designed for removal of oil vapour and other hydrocarbons with absolute retention efficiency .

■ The AK filter elements consist of a two-stage filtration. All particles are kept in a nanofibre depth filter media, while the activated carbon adsorbs all oil vapours and gaseous hydrocarbons.

■ Residual oil content of $< 0,003 \text{ mg/m}^3$ with according pre-filtration.

Characteristics and benefits

■ flow distribution at the compressed air inlet

- embedded activated carbon
- depth filter media made of binderfree woven nanofibres

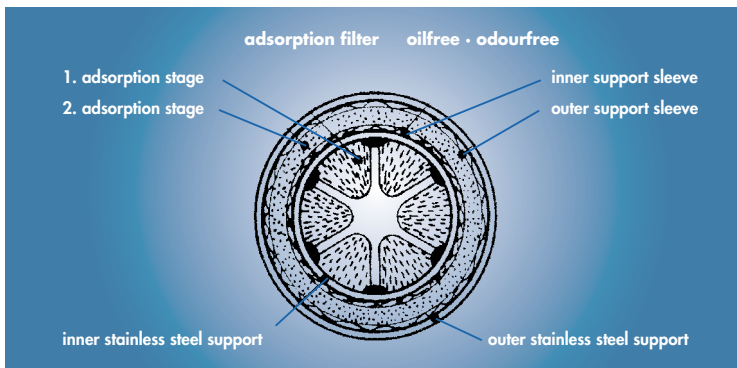
Applications

- chemical and petrochemical industry
- pharmaceutical industry
- breathing air
- prefiltration of sterile filters
- filling machines
- food & beverage industry
- packing machines
- process industry

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Characteristics:	Benefits:
High load of activated carbon	High adsorption capacity and long service life
flow distribution at the air inlet	optimized flow distribution and adsorption efficiency
Embedded activated carbon	No abrasion of grounded activated carbon
Depth filter stage of bonder-free woven nanofibres	Improved particle retention according to ISO 8573-1 can be achieved

Materials	
Adsorption stages	grounded activated carbon embedded in PUR foam
filter media	borosilicate nanofibres
support	polyamide
bonding	polyurethane
2 O-rings	perbunan, silicone-free and free of parting compounds as standard
support sleeves	stainless steel 1.4301/ 304



Recommended operation temperature:
+10°C...+40°C (T _{max} = +60°C)

Recommended Pre-Filtration
Residual oil content < 0,01 mg/m ³ , e.g. by subnanofilter SMF

Retention rate
residual oil content of < 0,003 mg/m ³ , with pre-filtration

Initial differential pressure at nominal flow:
0,07 bar

Adsorption efficiency of AK:	
Ethane	slight
Toluene	very good
acetic acid	very good
Methanol	good
Acetone	good
Isopropyl ether	very good
Methyl acetat	good
Sulphuric acid	very good
Hydrogen sulphuride	poor
Chlorine	good
Freon	poor
Ammonia	poor
Citrus fruits	very good
perfumes	very good

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