Element AKP

The ultrafilter silicone and release agent free activaded carbon adsoion filter for removal of oil vapour and hydrocarbons as well as odours. Specially developed for painting applications.

Product description:

The ultrafilter adsorption filter type AKP consists of 2 filter stages. At the adsorption stage oil vapour, hydrocarbons and odours are removed by adsorption at activated carbon.

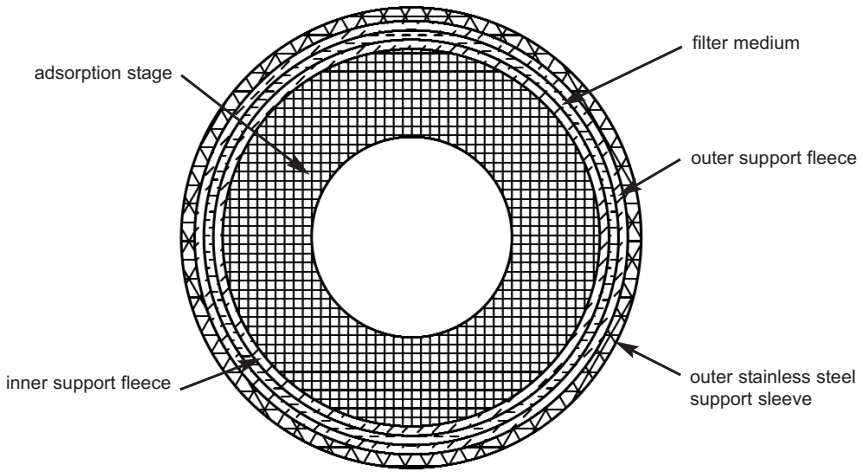
Particles are removed at the depth filter stage, consisting of NANO-fibre fleece. In addition, support fleece and an outer stainless steel support sleeve ensure the adjustment of the adsorption and filter stage.

Characteristics:

The ultrafilter AKP filter elements consist of a two-stage filtration. All particles are kept in a nanofibre depth filter media, while the activated carbon adsorpts all oil vapours and gaseous hydrocarbons.
• Residual oil content of < 0,003 mg/m3 with according prefiltration.

Cross section of the AKP adsorption filter

Adsorption filter design



Applications:

The AKP adsorption filter is for example being used in the following industries

- Chemical industry
- Petrochemical industry
- Pharmaceutical industry
- Breathing air supply
- Prefiltration of sterile air
- Filling machines
- Packaging machines
- Food industry
- Beverage industry
- Process industry for instrumentation and control air

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ULTRAFILTER
THE FILTRATION MANUFACTURER
Kronsbein ultrafilter ®

Element AKP

Features:	Benefits:
High packing density and inner surface of activated carbon foam	High adsorption capacity and improved efficiency guarantee optimum purification performance over the whole life time
Working temperatures +10°C to +40°C (Max. +60°C with reduction of capacity)	Optimal adsorption
Activated carbon incorporated into support foam	Prevention of activated carbon abrasion
Microfibre fleece depth filter stage at filter outlet	Improvement of particle retention - class 2 acc. to ISO 8573- 1 achievable

Materials:	
Adsorption stage	Activated carbon granulate, embedded into PUR ester foam
Filter medium	Binderfree borosilicate
Support fleece	Polyamide fleece
Bonding	Polyurethane
End caps	Aluminium
2 O-Rings	Perbunan-silicon-free and free of compound (standard)
Support-sleeves	Stainless steel 1.4301/ 304

Adsorption effiency of AKP Some example:	
Ethane	D
Toluene	A
Acetic acid	A
Methanol	B
Acetone	B
Isopropyl ether	A
Methyl acetate	B
Sulphuric acid	A
Hydrogen sulphide	C
Chlorine	B
Freon	C
Ammonia	C
Citrus fruits	A
Perfumes	A

Key:
A= very good
B= good
C= poor
D= slight

Recommended application temperature:
+10°C...+40°C (Tmax = +60°C)

Recommended pre purification:
Residual oil content < 0,01 mg/m³, e.g. by ultrafilter Submicrofilter SMF

Retention rate:
Residual oil content < 0,003 mg/m³, at appropriate pre purification

Initial differential pressure at nominal flow:
0,07 bar

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