

P-AK

ACTIVATED CARBON FILTER ELEMENTS

fits Donaldson P-EG, PG-EG & P-BE housings

Process Filtration

Adsorption filter elements for removing hydration (oil) vapors and odors.

Donaldson® P-AK adsorption activated carbon filter elements consist of two filter stages. At the activated carbon first stage, the P-AK filter removes oil, hydrocarbon vapors and odors by adsorption. Particles are removed at the microfiber fleece depth filter layer. In addition, a support fleece and an outer stainless steel support sleeve ensure structural integrity of the adsorption and filter stages.

A special flow insert ensures optimum flow distribution through the filter from inside to outside. This creates minimum pressure loss and ensures maximum usage of the filter material.

By using appropriate pre-purification (P-FF, P-MF or P-SMF), a residual oil content of <0.003 mg/m³ may be achieved.

APPLICATIONS

P-AK adsorption filter elements are ideal in the following industries and applications:

- Chemical
- Petrochemical
- Pharmaceutical
- Breathing air supply
- · Pre-filtration of sterile air
- Filling machines
- Packaging machines
- Food & Beverage
- · Instrumentation and control air



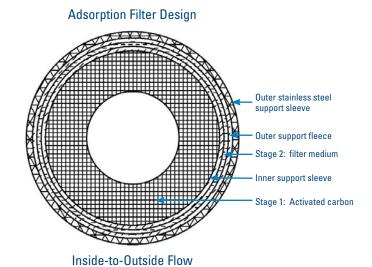
P-AK

FEATURES	BENEFITS
Activated carbon media	High adsorption capacity and improved efficiency ensure optimum purification performance over the filter life
Flow diffuser at filter inlet	Reduces flow resistance and ensure optimum air flow through the adsorption material
Activated carbon incorporated into filter support	Prevention of activated carbon abrasion
Microfiber fleece depth filter stage	Improved particle retention - class 2 according to ISO8573-1 achievable

SPECIFICATIONS

MATERIALS	
Adsorption Stage	Activated carbon granulate, embedded into PUR ester foam
Filter Media	Activated carbon
Support Fleece	Polyamide fleece
Bonding	Polyurethane
End Caps	304 SS
0-Rings	Buna
Support Sleeves	304 SS

P-AK ELEMENT ADSORPTION EFFECTIVENESS		
Ethane	Slight	
Toluene	Very good	
Acetic Acid	Very good	
Methanol	Good	
Acetone	Good	
Isopropyl Ether	Very good	
Methyl Acetate	Good	
Sulphuric Acid	Very good	
Hydrogen Sulphide	Poor	
Chlorine	Good	
Freon	Poor	
Ammonia	Poor	
Citrus Fruits	Very good	
Perfumes	Very good	



Retention Rate	Residual oil content <0.01 mg/m³ – use submicrofilter SMF element
Initial Differential Pressure at Nominal Flow	0.069 bar (1.0 PSI)
Recommended Application Temperature	10° C - 40° C (50° F - 104° F). Temperature maximum = 60° C (140° F) Adsorption efficiency decreases at higher temperatures)
Recommended Replacement Interval	2,000 operating hours

Important Notice: Many factors beyond the control of Donaldson can affect the use and performance of Donaldson products in a particular application, including the conditions under which the product is used. Since these factors are uniquely within the user's knowledge and control, it is essential the user evaluate the products to determine whether the product is fit for the particular purpose and suitable for the user's application. All products, specifications, availability and data are subject to change without notice, and may vary by region or country.





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