

ACTIVE CARBON CARTRIDGE - INTELLISEP

INTELLIGENT SEPARATION FOR HIGH PERFORMANCE REDUCTION OR REMOVAL OF DISSOLVED IMPURITIES

ACTIVE CARBON
ELEMENT



ACTIVE CARBON CARTRIDGE

This high performance granular activated carbon canister offers an exceptional solution to preventing foaming, odor contamination build-up and other process problems.

It effectively removes dissolved impurities from gas, air, amines, glycols, water and other process liquids.

Pentair's activated carbon cartridge is specifically selected to maximize the performance of processing applications where the target contaminant is long hydrocarbon chain molecule. It has very low ash and dust content.

Features and Benefits:

- High surface area
- Axial flow - top to bottom flow direction
- Utilizes coconut shell activated carbon; low ash content.
- Ergonomically designed with handle for easy change outs.
- Can be used in existing vessels
- Reduction of contaminants
- Long contact time means effective separation
- Long life with exceptional adsorbing

APPLICATIONS

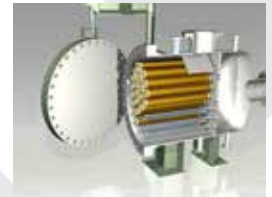
Activated carbon is used in **gas purification**, **water purification**, decaffeination, gold purification, metal extraction, medicine, sewage treatment, air filters in gas masks and respirators, and many other applications.

PROCESSOR® VESSEL

Particle Filtration & Active Carbon Applications

ProcessOR® high performance separation systems are designed with the flexibility to accept either particle filters or active carbon elements. Coupled with our Active Carbon Elements, the ProcessOR® vessels create an optimized design for delivery of exceptional product.

ProcessOR® vessels for filtration or active carbon applications are also available on a rental basis. Call to inquire +1.936.788.1000.



ProcessOR®

ELEMENT TYPE	Active Carbon Cartridge
SEPARATION MEDIA	Prevents foaming, odor contamination build-up and other process problems. Removes dissolved impurities from gas, air, amines, glycols, water and other process liquids. Maximize performance of processing applications where the target contaminant is long hydrocarbon chain molecule. It has very low ash and dust content.
END CAPS	Nylon
SEALS	Buna O-Rings
COMPONENTS	Proprietary high temperature epoxy adhesive
CONFIGURATIONS	Single Open End
DIMENSIONS	Nominal Length: 51" Nominal O. D.: 5"
RATINGS	Recommended maximum differential = 20 PSID (or upon diminished activity)

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CLAY TREATING TECHNOLOGY

CLEAN, DRY JET FUEL MORE EFFICIENTLY

REDUCE OR ELIMINATE HAZE AND POLAR SURFACTANTS

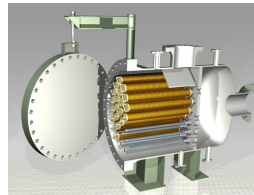
CLAY TREATING ELEMENT



CLAY TREATING ELEMENT

Clay treaters are an integral part of a system that provides high quality jet fuel and kerosene. A critical part of the process to assuring clean, dry fuel is controlling the level of surfactants in the fuel. Clay treaters remove surfactants and allow effective liquid-liquid separation technology, like Pentair's LiquiSep®, to perform their function.

Surfactants have a strong, natural affinity for the polar surfaces present in Magnesium Aluminum Silicate clays. The natural absorptive properties of Attapulgite clay toward surfactants is the basis of Pentair's clay treating elements. Clay is used in the form of fine, high surface area granules, providing a rapid absorption of surfactants and tremendous absorptive capacity. The clay treating technology uses Attapulgis clay specially formulated to withstand water exposure without crumbling.



ProcessOR®

POLAR SURFACTANTS

Surfactants, or surface active agents, are chemical compounds present in the fuel which are attracted to surfaces and interfaces. These polar compounds move to the fuel / water interface, stabilizing emulsions and potentially disrupting the coalescing process. Surfactant contamination may result from refinery carry over, processing additives or from cross-contamination in multi-product pipelines.

PROCESSOR® VESSEL

Particle Filtration & Clay Treating Applications

ProcessOR® high performance separation systems are designed with the flexibility to accept either particle filters or clay treating elements. Coupled with our Clay Treating Elements, the ProcessOR® vessels create an optimized design for delivery of exceptional fluid quality in finished fuels.

ProcessOR® vessels for filtration or clay treating applications are also available on a rental basis.

Inquiries: Call **+1.936.788.1000** or email energy.inquiry@pentair.com

ELEMENT TYPE	Clay Treating Element for Fuels
SEPARATION MEDIA	Proprietary Magnesium Aluminum Silicate Clay formulation specifically designed to separate particulates, surfactants, polar organics and color bodies from hydrocarbon fuels (gasoline, jet fuel, kerosene and other distillates).
END CAPS	Nylon
SEALS	Buna O-Rings
COMPONENTS	Proprietary high temperature epoxy adhesive
CONFIGURATIONS	Single Open End
DIMENSIONS	Nominal Length: 51" Nominal O. D.: 5"
RATINGS	Recommended maximum differential = 20 PSID (or upon diminished activity)

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