



Product Information

Belclene® Hydrocarbon Control - Product Range

General Product Information

Belclene® hydrocarbon control is a family of offerings that complement or replace conventional effluent treatment approaches for highly effective and cost efficient hydrocarbon removal. The benefits of Belclene hydrocarbon control include:

- High removal efficiency, ppb effluent levels are often achieved in a single pass.
- Able to withstand wide load variations.
- Permanent removal, no release of bound hydrocarbon.
- Simple operation, minimal flow reduction.
- Easy implementation and minimal equipment costs.
- Low space requirement.
- Low water pick-up, water does not consume capacity or add weight because the coating is hydrophobic.

Belclene hydrocarbon control products are treated with proprietary coatings that have the unique ability to bind hydrocarbon pollutants on contact. Cartridge filters and fabric pads are coated so that standard procedures and equipment can be used for hydrocarbon removal.

How the Coating Works

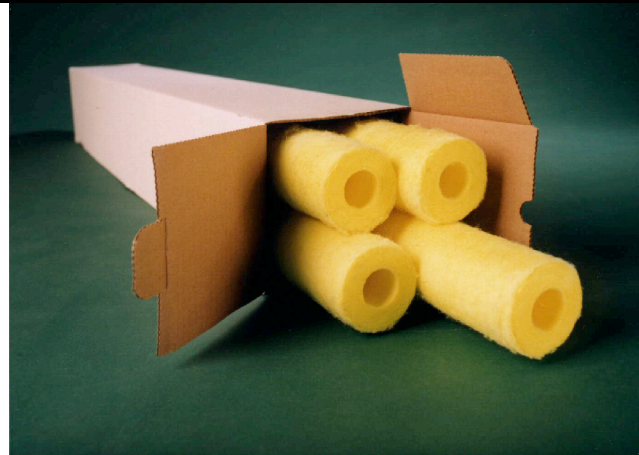
The coating permanently and instantaneously binds, dehydrates and coagulates hydrocarbon contaminants with high capture efficiency. Components with low water solubility are typically removed more effectively than those with high water solubility.

Excellent performance is usually observed when phase separation or surface rainbows occur for example: oil & grease, polyaromatic hydrocarbons (some pesticides and PCB's) BTEX (Benzene, Toluene, Ethylbenzene and Xylene) and some Persistent Organic Pollutants (POPs);

Intermediate performance is observed for more polar components such as aromatic and halogenated hydrocarbons, surfactants and metals (especially organically bound). The polarity of MTBE (methyltertbutylether) is high enough that removal usually requires multiple passes through filters.

Highly polar low molecular weight materials such as alcohols, carboxylates and phosphonates will not be removed by the coating.

Since water is repelled from these surfaces it does not consume capacity or add weight. This is important because water pick-up increases disposal costs simply on total weight of waste and, in the case of incineration, increases costs because of higher energy requirements.



General Product Descriptions

Typical Characteristics	Max Flow per 10"	High Viscosity Capture Capacity per 10"	Low Viscosity Capture Capacity per 10"
Style			
Standard	5 gal/min (19 litres/min)	300 grams	120 grams
Big Blue	20 gal/min (76 litres/min)	900 grams	360 grams

Note:

- Fluctuations in flow rate and influent contaminant levels, effluent quality, change out schedules and temperatures should be considered when sizing the system.
- Capacities represent complete removal often times to nondetectable or ppb levels.
- Relaxed effluent quality can increase single pass capacity by factors of 2 to 3+.
- Housings in series can increase per cartridge capacity by factors of 5 to 7+.

Cartridges Filters

Length	10 Inches (25.4cm)	20 Inches (76.3cm)	30 Inches (76.3 cm)
Style			
5 µ Standard Diameter (Standard Temp)	Belclene CF-10-S	Belclene CF-20-S	Belclene CF-30-S
5 µ Standard Diameter (High Temp)	Belclene CF-10-HT		Belclene CF-30-HT
5 µ Big Blue (Standard Temp)	Belclene CF-10-BL	Belclene CF-20-BL	
1 µ Standard Diameter (Ultra Performance Std Temp)	Belclene CF-10-UP	Belclene CF-20-UP	Belclene CF-30-UP