

FulFlo® TruBind™

Filter Cartridges



Effective and Economical Hydrocarbon Removal with Enhanced Polymeric Absorbent Cartridges

Parker Fulflo® TruBind™ absorbent cartridges use a modified polymeric absorbent that economically and effectively reduce trace hydrocarbon contamination in aqueous fluids. The enhanced polymer, configured in a radial-flow-design cartridge, provides maximum utilisation of available surface area. This product can be used alone or as an enhancement to other systems. Whether process fluid reclamation or meeting disposal requirements is the goal, TruBind™ can solve many demanding hydrocarbon-contaminated aqueous fluid problems.



Applications:

- Water Soluble Machine
- Tool Coolants
- Alkaline Parts Washing
- Industrial Discharge Water
- Injection Moulding Cooling
- Tanker Ballast Water
- Shipping Bilge Water
- Surface Water Runoff
- Car & Truck Wash Water
- Compressor Condensate
- Post Oil/Water Separator
- Gas & Oil Facility Waste water

Product Features:

- Increases machine tool life when installed at point-of-use
- Increases working life of valuable process fluids
- Reduces hydrocarbon levels to meet EPA discharge regulations
- Absorbed hydrocarbon is chemically bound by polymer and is not leachable
- Absorbent polymer is enhanced to maximise utilisation of surface area
- Radial flow design of cartridge allows maximum flow with minimal pressure drop
- High integrity construction withstands harsh process environment
- TruBind™ cartridges are completely incinerable

FulFlo® TruBind™

Specifications

Materials of Construction

Absorbent: Proprietary modified polymer
 Cage/Core: Polyolefin
 Seal material: DOE = Polyethylene
 Foam Gasket
 SOE = Buna N

Dimensions

ID = 27 mm
 OD = 27 mm

Maximum Recommended operating Conditions

Temperature: 82°C at 0.7 bar
 Pressure: 2.8 bar at 24°C
 pH range: 2 - 12

Recommended operating Conditions

Change-Out Pressure drop: 0.7 bar
 Flow Rate: 3.8 l/min per 10" element
 Flow Factor = 0.55 mbar per 1 litre min at 1 cks

Biosafety

The TruBind™ cartridge is classified as non-hazardous and incinerable. Disposal must be dictated by local regulations pertaining to the absorbed contaminant.

Technology

Unlike competitive technologies in which hydrocarbons are removed through surface adsorption onto the medium, TruBind™ cartridges utilize a proprietary modified polymer that both absorbs and chemically binds the hydrocarbon molecules into its interior matrices.

The affinity of the polymeric absorbent for hydrocarbon contaminant is so great that accelerated testing by the Toxic Characteristics Leachate Procedure (TCLP) indicated the effluent hydrocarbon level in water to be below current and proposed EPA limits.

The modified polymer was formulated to control the speed of hydrocarbon absorption by eliminating the potential for skin formation at the polymer/hydrocarbon interface. Consequently this polymer, when incorporated into a radial flow-design cartridge, insures maximum utilisation of surface area. The nature of the polymer makes it an effective absorbent for free, emulsified and dissolved oils, synthetic lubricants, grease and a multitude of organic solvents.

Performance

TruBind™ absorbent cartridge efficiency depends upon the residence time of the fluid within the cartridge, which is a function of the volumetric flow rate.

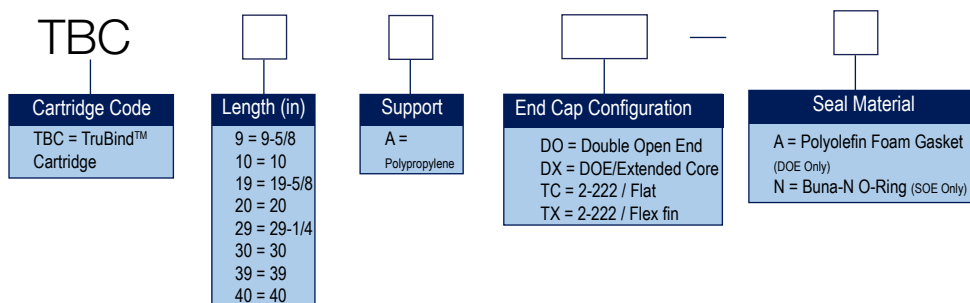
1. Hydrocarbon Removal Efficiency: At an equivalent flow rate of 3.8 l/min per 10-inch cartridge the TruBind™ cartridge typically reduces trace hydrocarbon contaminant in excess of 95% in single pass mode. This efficiency level can be maintained only to a net differential pressure of 0.7 bar. Series or multipass filtration can virtually eliminate hydrocarbon contamination.

2. Hydrocarbon Absorbent Capacity: The TruBind™ cartridge medium has the potential to remove up to 250 grams of low density hydrocarbon contaminant. On this basis, the table below provides expected life data in hours or gallons at several trace contaminant levels based on a 3.8 l/min flow rate per 10-inch cartridge. Absorbent capacity will decrease as density of hydrocarbon increases.

3. Flow Rate Capability: A maximum flow rate of 3.8 l/min per 10-inch length cartridge is recommended for the most effective removal of trace hydrocarbon contaminant

Hydrocarbon Concentration (ppm)	Hydrocarbon Concentration (% by weight)	Hydrocarbon Removal (grams/min)	Estimated life in Hours	Gallons of Fluid Treated
10	0.001	0.361	11.5	2631
100	0.01	3.61	1.2	263
100	0.1	36.1	0.1	26.3

Ordering Information:



PROSEP FILTER SYSTEMS LTD
Unit G19
River Bank Way
Lowfields Business Park
Elland
West Yorkshire
HX5 9DN

Tel: 01422 377367

Fax: 01422 377369

Email: enquiries@prosep.co.uk

www.prosep.co.uk

Map and Directions to Prosep Filters Limited



Leave M62 at Junction 24.

At roundabout adjacent to Cedar Court Hotel take 2nd exit onto dual carriageway (A629), signposted Halifax.

Take 1st exit slip road.

At roundabout at end of sliproad, take 3rd exit off.

This is the entrance to Lowfields Business Park.

Proceed straight over 1st roundabout.

At next roundabout take 2nd exit onto River Bank Way - Prosep Filters can be found on the left after the S-bend.

[Link to Google Maps](#)