

OIL ADSORBING CARTRIDGE

- Modified cellulose-based filter material chemically bonds specifically with hydrocarbons and other pollutants such as dissolved and dispersed oils from water
- · Instantaneous adsorption, more effective than activated carbon
- Up to 90 percent of total hydrocarbons are removed in a single pass
- For use in 20-inch Big Blue® filter housings

The OAC-20BB, made from modified cellulose-based filter media, is processed into sheets and assembled into cartridges for use in standard 20-inch Big Blue filter housings.

Features

- Instantaneous adsorption up to 90 percent of total hydrocarbons removed in a single pass
- High flow rates
- Removes dissolved and dispersed oils
- Low pressure drop
- Media can hold 250-300 percent of its own weight, with no release of removed hydrocarbons

Applications

- Gas and oil facilities
- Leisure/commercial shipping bilge water
- Surface water runoff (truck stops, airports, parking lots)
- Auto service stations
- Machine shops
- Industrial processes
- Factories and repair shops
- Car and truck washes

Installation

Certain applications may require pre-filtration.

Change-Out Frequency

Change-out frequency will depend on the oil burden they have to handle. Because no appreciable increase in pressure drop is observed during service life, the filter must be changed when its adsorption capacity is exhausted.

Dimensions

 Length
 20.125 in. (511 mm)

 Outside Diameter
 4.5 in. (114 mm)

 Core I.D.
 1.110 in. (28 mm)

 Temperature Limit
 125°F (51.7°C)

 Flow Rate
 5-10 gpm (19-38 L/min)

 Pressure Drop (at 5-10 gpm)
 0.2-1.0 psi (0.01-0.07 bar)

Material Specifications End Caps

Center Core
Outer Net
Media
Area
Weight
Chemical Notification #

PVC Plastisol Natural Polypropylene Polyethylene Modified Cellulose 18 sq. ft. (1.6 sq. m.) 1.75 lbs. (0.8 kg) 0 (zero)



OAC-20BB

Oil Adsorbing Cartridge

Specific Gravity, Viscosity and Weights of Common Liquids

Liquid	Specific Gravity	Viscosity 60°F	Weight lbs/gallon				
Miscellaneous Liquids							
Water	1.0	31.5	8.33				
Gasoline	.6874	30	5.6-6.2				
Jet Fuel	.7485	35	6.2-7.1				
Kerosene	.7882	38	6.5-6.8				
Turpentine	.8687	33	7.2				
Varnish Spar	0.9	1600	7.5				
Fuel Oil and Diesel Oil							
No.1 Fuel Oil	.8295	38	6.8-7.9				
No.2 Fuel Oil	.8295	50	6.8-7.9				
No.3 Fuel Oil	.8295	68	6.8-7.9				
No.5A Fuel Oil	.8295	400	6.8-7.9				
No.5B Fuel Oil	.8295	600	6.8-7.9				
No.6 Fuel Oil	.8295	70000	6.8-7.9				
No.2D Diesel Fuel	.8295	68	6.8-7.9				
No.3D Diesel Fuel	.8295	120	6.8-7.9				
No.4D Diesel Fuel	.8295	600	6.8-7.9				
No.5D Diesel Fuel	.8295	5000	6.8-7.9				
Crankcase Oil - Auton	Crankcase Oil - Automobile Lubricating Oils						
SAE 10	.88935	600-900	7.3-7.8				
SAE 20	.88935	900-3000	7.3-7.8				
SAE 30	.88935	3000-4400	7.3-7.8				
SAE 40	.88935	4400-6000	7.3-7.8				
SAE 50	.88935	6000-10000	7.3-7.8				
SAE 60	.88935	10000-17000	7.3-7.8				
SAE 70	.88935	17000-45000	7.3-7.8				
Transmission Oils - Automobile Transmission Gear Lubricants							
SAE 90	.88935	5500	7.33-7.79				
SAE 140	.88935	12000	7.33-7.79				
SAE 250	.88935	50000	7.33-7.79				

Liquid	Specific Gravity	Viscosity 60°F	Weight lbs/gallon				
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Other Oils							
Castor Oil Chinawood Coconut Cod Corn Cotton Seed Cylinder Navy No.1 Fuel Navy No.2 Fuel Gas Insulating Lard Linseed Raw Menhadden Neats Foot Olive Palm Peanut Quencing Rape Seed Rosin Rosin (Wood) Sesame Soya Bean Sperm Turbine (Light) Turbine (Heavy) Whale	0.96 0.943 0.925 0.928 0.924 .88925 .8295 0.989 1.0 .887 .912925 .925939 0.933 0.917 .912918 0.924 0.92 0.919 0.98 1.09 0.923 .92798 0.883 0.91 0.925	9000 1800 500 600 700 600 14000 1100 24000 90 600 500 500 1000 550 700 500 900 900 7800 Extreme Viscose 500 475 250 350 1400 450	8.00 7.85 7.70 7.73 7.70 7.33 – 7.7 6.83 – 7.9 8.24 8.33 7.39 7.6 – 7.7 7.7 – 7.82 7.77 7.64 7.6 – 7.65 8.16 9.1 7.69 7.72 – 8.16 7.35 7.58 7.58 7.58 7.70				

Performance

The Oil Adsorbing cartridge typically reduces hydrocarbon contamination up to 90-95 percent in a single pass. Lower outlet levels of hydrocarbons can be achieved by connecting cartridges in series. Higher flow rates also can be achieved by connecting cartridges in parallel.

For hydrocarbon-adsorbing capacity: The cartridge media has the potential to remove up to 2270 grams (5 lbs.) hydrocarbon contaminant. On this basis, the table below provides expected life data in hours or gallons at several contaminant levels based on a 10 gpm flow rate per 4.5" x 20" cartridge.

Hydrocarb (PPM)	on Concentration (% by weight)	Hydrocarbon Removal per Minute (grams)	Estimate Life in Hours	Gallons Fluid Treated	Estimated Cost per Gallon of Treated Fluid
10	0.001	0.36	106	63,308	0.001
100	0.01	3.6	10.6	6,330	0.01
1000	0.1	36	1.1	633	0.11

NOTE: Operating flow will vary based on applications, type of pollutants, flow rates and level of contamination.

DISPOSAL: Safe and acceptable method to meet all local and EPA regulations is recommended. End user is responsible for safe disposal of used cartridge at user's cost. Consult factory for additional information.





