

SUPACARB BP

Carbon Block Cartridge



SupaCarb BP series use a unique sintered carbon technology that combines the best features of both powdered (PAC) and granular (GAC) activated carbon in one cartridge. Both element styles use the SupaGard spun bonded media for the pre-filtration layer and are available with moulded polymer ends for superior sealing and enhanced product performance.

SupaCarb offers an extremely economical solution to many common liquid treatment applications.



Product Features - BP

- Unique sintered block using both granular and powdered carbon
- Modular construction up to 1017mm (40")
- Polymer materials meet US FDA Title 21 requirements

The modular SupaCarb BP uses a unique sintering process that combines high purity powdered and granular carbon, this results in the very highest available surface area for a 10" cartridge. Superior adsorption and on-stream life makes the BP the very best choice of carbon cartridges.

Equipped with 5µm nominal rated spun bonded polypropylene pre-filtration layers and a full range of welded end caps, SupaCarb is the ideal choice of activated carbon cartridges. Compared with conventional Granular Activated Carbon cartridges, the SupaCarb will not fluidise, channel or bypass, therefore maximising the effectiveness of the carbon media.

Features and Benefits

- Large carbon surface area exhibits excellent chlorine reduction characteristics
- Low volume pre-use flush required compared to lenticular cartridges
- Graded density pre-filtration layer for effective sediment removal and protection of the carbon media
- All polymeric construction offers excellent chemical compatibility and stability in aqueous solutions
- Minimal carbon release when compared to conventional loose filled granular (GAC) style cartridges
- Identification embossed on every cartridge
- Construction eliminates fluidising, channelling or bypass
- Can be sanitised and steam sterilised

See product guides for further details of test methods and rated efficiencies

Industries and Applications

- | | |
|--------------------------|---|
| Metal Finishing | • Organic reduction in plating baths |
| Fine Chemicals | • Colour reduction in solvents |
| Food and Beverage | • Colour reduction in alcohol, Bottled waters, General clarification, Ozone reduction |
| Water Treatment | • Small scale chlorine, odour, colour and trace organic reduction |
| Pharmaceutical | • Colour reduction in solvents |

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SupaCarb Technical Data

Dimensions

Outside Diameter: 66.5mm
Core Diameter: 27mm

Sterilisation and Sanitisation*

Steam: 121°C for 15 mins (20 cycles)
Hot Water: 90°C for 30 mins (0.2 bar Δp max)

*Applies to single open end cartridges only. For all steaming and hot water applications, the Reinforced Polypropylene End Cap option must be used

Maximum Operating Conditions

Temperature: 80°C
Recommended change-out differential pressure: 2.5 Bar

Product validation guide available on request. All SupaCarb cartridges are manufactured under strict control with batch number identification, giving full traceability on all components

Chlorine Reduction Capacity Data (10" element)

Cartridge Type	Flow Rate (Litres/min)	Chlorine reduction Capacity (litres)
06BP	3.7	>75000

The above test is based on challenging a 10" filter with water containing 3.0 ppm of free chlorine. The chlorine reduction capacity is the volume, in litres, of water from which the filter will successfully remove >96% of free chlorine present upstream of the filter when operating at given flow rate.

Flow Rate

Cartridge Types	Max flow rate for odour, taste and chlorine reduction (litres/min/10" length of cartridge)	Recommended max flow rate for >96% chlorine reduction capacity (litres/min/10" length of cartridge)
06BP	15 @ 280mBarΔp	3.7 @ 70mBarΔp

Note: For safety reasons, the Amazon SupaCarb range of cartridge elements should only be used on microbiologically safe water supplies. Activated carbon cartridges are not designed to remove or kill bacteria or viruses. All the data shown should be treated with caution, actual results will vary with the different combinations of organic content present, pH variations and temperature, and should not be considered a warranty of any kind.

Ordering Guide

06BP	005 -	20	3	E	A	
Carbon/Media	Micron Rating	Length	Connections	Seal	Branding	Options
06BP - Sintered Block	005 - 5.0μm	05 - 125mm 09 - 249 20 - 509 30 - 763 40 - 1017	0 - DOE A - Code A B - Code B* ² S - Code S 2 - Code 2 3 - Code 3 7 - Code 7 8 - Code 8	B - Buna E - EPDM F - FEP / Silicone (SOE Only) S - Silicone V - Viton	A - Amazon	G - Reinforced Polypropylene End Cap

Example: 06BP005-203EA = Sintered Block media, 5.0μm rating, double length 20" long, code 3 connections with EPDM seal.

* Code B - to fit Amazon 50 Series housings only.

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