



Lead Specialist Carbon Block Cartridge Data Sheet

For the reduction of Lead, Chlorine and other Organic Chemicals

The chemical reduction capacity of a carbon block cartridge is often 4 times and can be up to 20 times that of a granular activated carbon cartridge of similar dimensions. The following is a comparative performance test on chlorine reduction between the Lead Specialist Cartridge and granular activated carbon (GAC).

Chlorine Reduction Efficiency

Litres	Lead specialist	Typical GAC
Initial	99>	99>
4000	99>	97
8000	99>	91
12000	99>	83
18000	95	71
20000	90	71

The above test was conducted with a feed water containing 2 ppm of free available chlorine and at a flow rate of 4 litres/min on a standard 2.5" diameter x 10" cartridge.

Three different grades give nominal filtration sizes of 1,5 and 10 micron. The options provide for optimum selection dependent upon the pressure drop required and the contaminants (suspended solids and chemical) in the feed water.

The cartridges are sealed each end with polypropylene end caps. The cartridge sizes are designed to suit standard cartridge housings for 2.5 and 4.5 inch diameter and 5, 10 and 20 inch length.

Maximum operating conditions:

Temperature- 52 °C
Pressure- 18kgf/cm² (250psid)
Pressure differential- 7kgf/cm² (100psid)

CARBON BLOCK PERFORMANCE TABLE

Contaminant	Lead Specialist
Chlorine	Yes
THM's	Yes
Pesticides	Yes
Herbicides	Yes
PAH's	Yes
Phenols	Yes
Aluminium	No
Lead	Yes
Iron	No
Maganese	No
Sediment	Yes
Bacteria	No
Cysts	No

if the chemical removal performance of Matrikx is required with water which contains pathogenic bacteria, then Matrikx can be incorporated within the microporous ceramic. This product is designated Platinum and offers a practical solution within a single filter housing.

Alternatively for optimum performance a multi-housing filter system, e.g. M5 or M10, can be used whereby each filter housing can be fitted with a dedicated element so that almost any water quality problem can be tackled effectively and economically.

Note: carbon filters should not be autoclaved or steam sterilised. This cartridge should be used only with microbiologically safe water.