



WHY CC1 – WATER FILTER OR WATER PURIFIER?

CC1. Multipure's CC1 3 stage sub micron water purification cartridge is exclusive to Waterways'. There are a number of would be "pretenders" but only CC1 possesses the electrostatic outerwrap that combined with its many other features make this cartridge so unique. CC1 performance claims are well documented – they're there for all to see. So what are the 3 stages of purification, and why is the exclusive Multipure outer-wrap such an important feature of CC1.

Stage 1 – Electrostatic removal of pollutants. The outerwrap is an electro-statically charged graded density pre-filter. It possesses a strong positive electrostatic charge which is maintained for the life of the cartridge by the kinetic effect of the water passing through the cartridge. The outerwrap attracts and holds pollutants [that are filtered] to the outside of the cartridge. Because the wrap does not remove chlorine, bacteria and other substances that have been removed are constantly disinfected by the incoming chlorinated water supply. The effect of this is that the outerwrap provides far superior filtration performance when compared to standard carbon filters. In addition and equally importantly the wrap keeps the inner carbon block – chemicals removal component of CC1 – spotlessly clean for the life of the cartridge. Simply put, if a carbon cartridge does not possess the patented Multipure electrostatic wrap, consumers will at some point be drinking water that has been through all the technology of having been filtered through a dirty sponge!

Stage 2 – Sub micron filtration. CC1 filters to 0.45 of 1 micron – or about a 20th of the size of a human hair. This ultra fine sub-micron filtration gives CC1 its superior heavy metals reduction performance. It is in fact one of the most highly rated copper and lead reduction cartridges available anywhere in the world. Some companies claim low micron performance but can't substantiate their claims...ALWAYS ask to see the performance data before making comparisons.

Chemicals removal is becoming an increasingly important issue. Chlorine and its disinfection by-products (trihalomethanes) are progressively giving way to "chloramines" – a potent mix of chlorine and ammonia that allow much higher levels of disinfection to be delivered to the kitchen tap (ammonia is added as a chlorine stabiliser). "Iodoacetic acid" – a disinfection by-product of chloraminated water – has been described by the American Environmental Protection Agency as "the most toxic disinfection by-product ever tested" (Source "Water Safety" – Lara Grinevitch, N.D.) CC1 effectively removes them all – in this case because of a synergy of activated carbons working together in the clean environment provided by the electrostatic outerwrap. (Activated carbon is carbon that has been chemically heated until it explodes. At this point it takes on a cellular structure with a much higher surface area than non-activated carbons). Some carbons remove some chemicals better than others. That's why CC1 has more than one type of activated carbon – uniquely blended for maximum chemicals reduction performance.

Stage 3 – Pharmaceutical grade membrane. There is a pharmaceutical grade membrane located at the core of CC1. This final stage membrane is a safeguard against carbon "migration" should the cartridge ever be damaged.

Performance/ Approvals. CC1 is Australian Standards approved (AS/NZS 3497 certificate number PST20072). It has also been performance tested by Australian Government Analytical Laboratories. Giardia and cryptosporidium removal performance was confirmed by Massey University in New Zealand. CC1 is manufactured using the same recipe as the US only Multipure CB-6 cartridge which is featured on Multipure's www.multipure.com web site. All Multipure carbon block filter cartridges are rated to US NSF/ ANSI Standards 42 and 53 for both performance and materials from which the cartridges are manufactured.

As CC1 removes 100% of E-Coli bacteria it qualifies as a drinking water purifier rather than a drinking water filter. There is a very big difference between a filter and a purifier with only "filters" that remove 100% of bacteria qualifying as a "drinking water purifier". The drinking water purifier status given to CC1 is one of its most powerful advantages.

Unique Seal. None of the performance claims of CC1 are worth anything if the design of the cartridge allows water to by-pass around it. CC1 water purifier cartridges possess a positive screw-in seal that is specifically designed to prevent water from by-passing the cartridge. This seal is demonstrably effective and is one of the reasons for CC1's superior performance capabilities. CC1 cannot by-pass.

Summary. CC1 is arguably the most tested and approved drinking water purifier of its type in the world. A very important point to remember is "that if a water filter doesn't remove bacteria then in all probability it may add to the bacteria problem as it progresses rapidly to dirty sponge status".

Waterways' CC1 - 3 Stages of Water Purification



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WATERWAYS CC1 DRINKING WATER PURIFIER by Multipure (USA)

Multipure's CC1 is a 3 stage sub micron water purification cartridge. Because it removes 100% of E-Coli bacteria it qualifies as a drinking water purifier rather than a drinking water filter.

Some of the unique features of the CC1 cartridge:

- positively charged electrostatic outer wrap**
- sub micron carbon block filtration to 0.45 of a micron**
- pharmaceutical grade final stage membrane**
- superior USA filter housings (NSF & Aust. Standards approved)**
- unique seal-cannot bypass**
- performance approvals**

***Certified to NSF 42 & 53 (USA)**

Australian Standards approved (AS/NZS 3497)

Australian Standards certification for cysts removal (AS4348:1995)

***Certificate of Analysis from the Australian Government Analytical Laboratory, Seaton, South Australia details removal of:**

99% copper

95% zinc

91% lead

90% mercury

83% cadmium

44% aluminium (flouride is a by-product of aluminium smelting)

100% e-coli bacteria

98-99% pesticides & herbicides

100% chlorine

Chlorine,tri-halo methane & cysts removal to Australian Standards

***Does not lower TDS (TDS is a measure of minerals content).**

Purified water retains naturally occurring trace elements & minerals: magnesium, potassium, calcium & sodium etc.

****Summary:CC1 is arguably the most tested & approved drinking water purifier of its type in the world. It comes with a 3 year warranty. Waterways Products (Aust) Pty Ltd have built an enviable reputation in the Australian Water Industry over the past 35 years.**