



YOUR SPECIALIST SUPPLY PARTNER

# PURAGEN ACTIVATED CARBON

## Specialty water and liquid filtration

PRODUCT	CARBON BLOCK	GAC	PAC	CHLORINE	TRIALO METHANE	MONOCHLORO AMINES	NOM/ TOC	TASTE & ODOUR	PESTICIDES/ HERBICIDES	SMALL ORGANICS	LARGE ORGANICS	LOW REACTIVATION LOSSES
Oxpure 200A-8			✓	-	-	-	-	-	-	✓	✓✓✓	-
Oxpure 200B-9			✓	-	-	-	-	-	✓	✓✓	✓	-
Oxpure 325A-9			✓	-	-	-	-	-	✓✓	-	-	-
Oxpure 325W			✓	-	-	-	-	-	✓✓	-	-	-
Aquaguard 325	✓			✓✓	✓	✓✓✓	✓✓	✓✓	-	-	-	-
Oxpure 5250C-AW	✓			✓✓	✓	✓	✓	✓	-	-	-	-
Oxpure 8325C-WW	✓			✓✓	✓	✓	✓	✓	-	-	-	-
Oxpure 2050S		✓		✓	✓	✓✓✓	✓	✓	-	-	-	-
Oxpure 2050C		✓		✓✓	✓	✓	✓	✓	-	-	-	-
Oxpure 2050C-AW		✓		✓✓	✓	✓	✓	✓	-	-	-	-
Oxpure 1230C		✓		✓✓	✓	✓	✓	✓	-	-	-	-
Oxpure 1230C-AW		✓		✓✓	✓	✓	✓	✓	-	-	-	-
Oxpure 1240A-AW		✓		✓	✓	✓	✓✓	✓✓	-	-	-	-
Oxpure 1240B		✓		-	-	-	-	-	✓	-	-	✓✓
Oxpure 1240 B Extra		✓		-	-	-	-	-	✓✓	-	-	✓✓
Oxpure 1240S				✓	✓✓✓	✓✓✓	✓	✓	-	-	-	-
Oxpure 1020B		✓		-	-	-	-	-	✓	-	-	✓✓
Oxpure 830A		✓		-	-	-	-	-		✓	✓✓✓	✓
Oxpure 830B		✓		-	-	-	-	-	✓	✓✓	✓	✓✓
Oxpure 830B Extra		✓		-	-	-	-	-	✓✓	✓✓	✓✓	✓✓✓
Oxpure 840R		✓		-	-	-	-	-		✓	✓	✓✓

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## **DRINKING WATER**

Rivers, lakes, and groundwater aquifers provide our drinking (potable) water, which must be treated to make it safe to drink. Activated Carbon is regarded as one of the best treatment technologies for removing many impurities from drinking water. Just as water is recycled and purified in nature, it can be treated in man-made systems to remove unwanted contaminants. Puragen carbons in both granular activated carbon (GAC) and powdered activated carbon (PAC) forms are used by water treatment facilities to treat potable water. Puragen GAC products are placed in gravity or pressure filters and the water passes downward through the GAC. Puragen PAC products are usually added after the raw water intake or before the coagulation / flocculation stage. Puragen PAC dose rates can be varied depending upon the amount of contaminants present. Puragen Activated Carbon products are used to reduce naturally occurring organic matter (NOM) such as total organic carbon (TOC), taste and odor compounds (T&O) like MIB and geosmin from algae, and manmade contaminants like pesticides and herbicides. Puragen offers a wide variety of activated carbons to meet your specific purification challenges.

## **POINT OF USE (POU) AND POINT OF ENTRY (POE)**

Potable water is treated to remove unwanted contaminants, but trace levels on the contaminants may remain. The most common disinfectants, chlorine and monochloramine remain in the water, which can cause taste and odour issues. In addition, the use of these disinfectants may form undesirable chemical byproducts which can lead to health issues. Point of use (POU) and point of entry (POE) systems are used to further treat potable water that comes from water treatment facilities. Puragen granular and powder carbons are used in POU and POE systems to remove free chlorine, monochloramines, (NH<sub>2</sub>Cl), volatile organic compounds (VOC), disinfection by-products like total trihalomethanes (TTHM), total organic carbon (TOC) and undesirable taste and odours (T&O). Point of use filters include faucet mounted, under the sink, and pitcher. Point of entry systems treat potable water as it enters residential, commercial or industrial buildings.

## **WASTEWATER**

Wastewater is generated from residential, commercial and industrial operations. Wastewater contains a mixture of many different impurities at high concentrations. The levels of these impurities need to be reduced so the wastewater can be safely discharged into the environment. Many traditional treatment processes like flocculation, sedimentation, and biological treatment are used to reduce the levels of impurities in wastewater. Puragen Activated Carbon products provide additional removal capabilities to wastewater systems. Puragen powdered activated carbon (PAC) is added to aerobic biological treatment processes (activated sludge/PACT) to adsorb toxic impurities, aid in foam reduction, aid in solids setting, and improved BOD and COD removal. Puragen granular activated carbon (GAC) is normally used as a polishing step to reduce impurities such as colours, dyes, chlorinated/ halogenated organics, aromatic organics and pesticides that remained after traditional treatment methods.