



WATERPLUS

ENGINEERED SOLUTIONS

OXIPLUS¹²

Introduction

OxiPlus¹² is a black filter media used for removing soluble iron, manganese, hydrogen sulfide, arsenic, and radium from groundwater supplies. The manganese dioxide coated surface of the OxiPlus¹² acts as a catalyst in the oxidation reduction reaction of iron and manganese. The silica sand core of OxiPlus¹² allows it to withstand waters that are low in silica, TDS, and hardness without breakdown. OxiPlus¹² can also filter out particles down to 10 microns in size. This media has an NSF-61 certification for use in treating potable water.

Application

OxiPlus¹² is more robust and is effective at higher operating temperatures and higher differential pressures than standard Greensand Plus™. Higher MnO₂ surface content at 12% minimum vs. 4.5-5% for competitive products, can provide for longer run times between backwashes and a greater margin of safety. Systems may be designed using either vertical or horizontal pressure filters, as well as gravity filters.

Physical Properties

Composition: Manganese dioxide coated silica sand

Bulk Density: 84 lb/ft³ (1.35 kg/L)

Mesh Sizes: 18x45 mesh (0.56 mm E.S.)

Uniformity Coefficient: Less than 1.50

Packaging: ½ ft³ bags, 1m³ supersacks

Operation

pH: 6.2 – 8.5

Bed Depth: 24"- 48" depending on application

Freeboard: 40% of bed depth (min)

Typical Treatment Loading Rate: 2-10 gpm/ft²

Backwash Rate: 16-18 gpm/ft², 5-8 minutes, temperature dependent

Bed Expansion (20°C)

