



Anthracite

Introduction

Anthracite is a hard, compact variety of coal that has a submetallic luster. It has the highest carbon content, the fewest impurities, and the highest energy density of all types of coal. The filter material is made of high-quality anthracite, which is selected, crushed and sieved twice. It has good appearance, spherical shape, high mechanical strength, good compression resistance, stable chemical properties, no toxic substances and wear resistance, insoluble in acidic, neutral and alkaline water. In addition, the anthracite particles have a rough surface, good adsorption capacity, high porosity (≥52%), and high adsorption capacity.



Application

Anthracite filter media is the most commonly used filter material. It is versatile and adaptable. It can be used in ordinary drinking water for domestic drinking water and industrial production water as well as various pool types.

Double-layer and three-layer filter, various sewage filters, water purification mechanical filters and water treatment before and after production of chemical, metallurgical, thermo-electric, pharmaceutical, paper, printing and dyeing, food, etc.

Technical Parameter

Items	Test data
Fixed Carbon	≥97%
Wear rate	≤0.35%
Crush rate	≤0.68%
Hydrochloric acid soluble rate	≤0.98%
Porosity	53%
Density	1.57g/cm ³
Bulk density	0.947g/cm ³
Asymmetry coefficient	k ₈₀ ≤ 2
Sulfur	≤0.05%
Zn	≤0.04%
Cu	≤0.025%

Garnet sand

Introduction

The garnet filter material is made of natural silicate mineral garnet with stable chemical properties. It has high melting point, large specific gravity, high hardness, strong acid and wear resistance and good chemical stability. It is a new type of wear-resistant water purification material.

Garnet is used as a filter medium for the water filter gravel layer. It has advantages not found in other filter media. For example, the filter media for garnet water filters are organic-free, non-crushed or ground minerals, and do not contain acid-soluble components and other impurities.

Application

Garnet is used as sand layer filter material at bottom of the filtration system, with anthracite on the top and quartz sand in the middle. It is used in industrial filtration systems and swimming pools to eliminate pollution and purify water.



Technical Parameter

Items	Index
Specific gravity	3.9g/cm ³
Bulk weight	2.5g/cm ³
Wear rate	0.08%
hardness	7.8
Acid resistance rate	96%
Porosity	47%
Melting point	1318°C