GRANULAR ANTHRACITE

Application: filter media

PURPOSE AND USE

Filtration on granular anthracite is one of the techniques used for the reduction and elimination of suspended solids in the treatment of drinking, industrial and waste water.
Dissolved substances and colloids cannot be retained in a systematic manner, but must undergo pre-treatment to be transformed into substances that can be filtered. The exceptional filtering action of anthracite is due to the irregular shape of the grains, which form intergranular voids, allowing high filtration speeds to be achieved with low pressure losses and allowing large quantities of impurities to be deposited.
The overlapping of several layers of anthracite with different grain sizes allows the retention of solids of different sizes on each of the different layers, implementing the so-called multi-layer filtration system in which the retention capacity is much greater than with single-layer filters and where the increase in pressure drop is much slower, allowing for longer filter operating times.

MAIN FEATURES

Granular anthracite is very effective to complement sand filters in two-layer systems. The density is lower than that of sand, so good separation is achieved: the layers only mix by a few millimetres. The material is selected at source with strict criteria for hardness and purity. Its low silica content favours its use in the treatment of alkaline water used in boiler feed. The density of the product together with the irregular, angular shape of the particles prevents the formation of a compact bed and consequently the entire layer functions as a filter medium.

Granular anthracite complies with standard UNI EN ISO 12909 - Products intended for the treatment of water intended for human consumption: ANTRACITE

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TECHNICAL DATA

GENERAL CHARACTERISTICS			
INDEXES	**METHOD**	**UNIT**	**TYPICAL VALUES**
Colour			Black
Bulk density	Astm 2854	Kg/m3	950 ± 20
Particle density		g/cc	1.8 min
Packing moisture	Astm 2867	%	2 max
Ashes	Astm 2866	%	4 ± 2
Hardness	Mohs 3802		3
Carbon content		%	90 min
Volatile substances		%	3 ± 1
Sulphur		%	0.5 max.
pH	Astm 3838	-	8 - 10
PACKAGE			
25 kg sacks			

The chemical and physical characteristics given above are true and accurate average values to the best of our laboratories' knowledge. Since the conditions o f application are beyond our control, we cannot assume liability, including patent abuse, i n connection with the use of our products, data or suggestions.

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