GRANULAR ANTHRACITE

Application: filter media

Rev. 0 - 03/24

CHARACTERISTICS

Filtration on Granular Anthracite is part of the techniques used for the reduction and elimination of suspended solid substances in the treatment of drinking, industrial and waste water.

Dissolved substances and colloids cannot be retained systematically, but must undergo pre-treatment to be transformed into materials capable of being filtered. The exceptional filtering action of anthracite is due to the irregular shape of the grains which constitute intergranular voids, thus allowing high filtration speeds to be obtained with low pressure losses and allowing large quantities of impurities to settle there.

The superposition of different layers of anthracite with different grain sizes allows the retention, on each of the different layers, of the solid materials which may have different dimensions, thus implementing the so-called multi-layer filtration system wherein the retention capacity is larger than single-layer filters and where the increase in pressure drops is much slower, thus allowing long filter operation times.

Granular anthracite is very effective for completing sand filters in double layer systems. The density is lower than that of sand; therefore, a good separation is obtained: the layers mix only for a few millimeters. The material is selected at source with strict criteria relating to hardness and purity. Its low silica content favors its use in the treatment of alkaline water used to feed boilers. The density of the product together with the irregular and 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 the UNI EN ISO 12909 standard – Products intended for the treatment of water intended for human consumption: Anthracite

SUPPLY SPECIFICATIONS

Bags of Kg 25 on pallet

Drinking use.

TECHNICAL DATA

Code		**48100009**	
Indexes	**Method**	**Unit**	**Typical values**
Color			Nero
Apparent density	Astm 2854	Kg/m3	950 ± 20
Particle density		g/cc	1,8 min
Humidity in the packaging	Astm 2867	%	2 max
Ashes	Astm 2866	%	4 ± 2
Hardness	Mohs 3802		3
Carbon content		%	90 min
Volatile substances		%	3 ± 1
Sulfur		%	0,5 max
pH	Astm 3838	-	8 - 10

AVERAGE DELIVERY TIMES

2-3 weeks