

# PIROLUSITE

Application: filter media



## PURPOSE AND USE

Pirolusite is a highly selected natural mineral, free of additives and impurities, for use as a catalyst in the oxidation of iron and manganese.

The material is used in pressure or gravity filters mixed 20% to 50% by volume with sand of a suitable grain size (approx. 0.5÷1.0 / 0.7÷1.2 mm), for the removal by catalytic oxidation of iron and manganese from water.

## MAIN FEATURES

Pirolusite is manganese dioxide of excellent quality and purity specifically for use in drinking water treatment, obtained by washing, drying and screening, of ore selected for specific catalytic activity.

Pirolusite complies with ISO EN 13752 'Products for the treatment of water intended for human consumption - manganese dioxide

## METHOD OF USE

Add 20% to 50% by volume of PIROLUSITE to a bed of sand with a grain size of 0.5÷1.0 / 0.7÷1.2 mm.

Backwash to allow uniform mixing of the two media and ensure maximum contact time between the water and the catalytic bed in filtration. The filter bed must be gently backwashed: do not exceed 25 m<sup>3</sup>/m<sup>2</sup>/h. Typical filtration speeds must not exceed 10 m/h. A catalytic bed with the characteristics described above has backwash pressure losses and expansion comparable to a filter bed composed only of sand of the same grain size.

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## TECHNICAL DATA

GENERAL CHARACTERISTICS	
Appearance	Granules
Colour	Dark brown
Granulometry	0.355 ± 0.850 mm
Bulk density	2,000 g/l
Hardness (Mohs scale)	3 ÷ 5
Manganese content	80%
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 of application are beyond our control, we cannot assume liability, including patent abuse, in connection with the use of our products, data or suggestions.