

ANTI-FIRE P

Anti-fire product – flame retardant

Technical Data Sheet October 2018

PRESENTATION

ANTI-FIRE P is a product specifically developed to retard and stop the development of flames of easily flammable products.

FEATURES

ANTI-FIRE P is composed of a powder highly soluble in fresh water, up to a concentration of 40%, and it is effective on every organic compound. **ANTI-FIRE P** itself absorbs the oxygen when the heat of the fire starts producing. Initially, it slows down the combustion of the organic compound, then, once the temperature has soared above 600°C, the product treated with **ANTI-FIRE P** carbonizes without producing flames.

Thank to these features, in case of wildfires, **ANTI-FIRE P** can circumscribe the area of the fire and block the developments of sparkles and of the “fire wind”.

When it is used to impregnate beams and structures in timber, both hardwood and multi-layer, **ANTI-FIRE P** makes the wood practically fireproof. When timber treated with **ANTI-FIRE P** is exposed to open fire, it carbonizes without producing flames, then, as soon as the flame moves away, it stops and self-extinguishes.

USE

Pre-emptive use. **ANTI-FIRE P** is normally used for anti-fire impregnation of timbers for civic and industrial buildings, to treat heaps of solid organic substances at risk of fire, and to spray wood and underwood around civic houses. In these cases, the treatment must be repeated after any heavy rain, because rain can wash the products away. **ANTI-FIRE P** is used also to retard the collapse of ceilings, false ceilings, and sound-absorbing material of public structures.

Anti-fire intervention. If woods or underwoods take fire, **ANTI-FIRE P** makes it possible to extinguish and limit the fire. It must be used on the vegetation around the perimeter of fire, on the vegetation immediately downwind (by using a helicopter or other adequate means), and on whatever is combustible outside houses in the middle of the fire. When the fire is extinguished, **ANTI-FIRE P** can be removed easily by using a water jet or a pressure washer.

Fertilizing action. **ANTI-FIRE P** is not toxic at all. On the contrary, it is a good fertilizer for the majority of the plants and of the soil, both as before and after a fire.

TECHNICAL DATA

	Data	Method
Composition:	Siliceous and phosphoric salts	
State:	Powder	Visual
Colour:	Beige	Visual
Specific gravity:	Max. 1.00 kg/dm ³	IST. 10.06
Granulometry:	Min. 95.0 < 0.500 mm	IT. 10.09
Chloride content:	Max. 0.05%	
Humidity:	Max. 4.0%	IST. 10.04
Water solubility:	Totally soluble	IST. 10.21
Temperature of application:	> 0°C	

DOSAGE AND WAY OF USE

ANTI-FIRE P is normally used in a 10% solution with water.

To treat timbers and sound absorbent products, the consumption is 100 -300 gr/m² depending on their porosities.

For anti-fire treatment, the consumption is 2 – 10 kg/m² depending on the dimensions of plants and leaves.

STORAGE AND VALIDITY

If it is stored in a dry place and in the original packages kept perfectly closed at temperatures between -10 and + 40°C, **ANTI-FIRE P** has a 1-year validity from the delivery date.

PRECAUTIONS

ANTI-FIRE P is harmless in contact with the skin.

It can be easily removed from any surface with water and soap.

Inhalation can cause a slight irritation of the first part of the respiratory tract, but this problem stops as soon as you stop handling it. It is advisable to use dust masks and to avoid dispersing it in the environment.

In case of accidental loss, it must be picked up in the dry state and discharged in an authorized waste dump.

In case of fire, do not inhale the vapours and use an oxygen mask.

PACKAGING

ANTI-FIRE P: 25 kg paper bags.

ANTI-FIRE S10: 100 kg drums, 1000 kg IBC, and bulk in tank.

ANTI-FIRE S40: 100 kg drums, 1000 kg IBC, and bulk in tank.

The specifications stated in this report have been got either through standardized tests and rules or their modifications following NCT systems. The methods applied can be requested to our technical service.

All the data stated in this technical sheet are based on our knowledge and experience. However, before using the item differently from indicated, it is advisable to carry out preventive tests. In any case, NCT does not assume any responsibility for any damage or defect caused by the use of our products, as the employment conditions are not under our control. We also inform that our technical service is at our customers' disposal for any information concerning the correct employment of our products

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