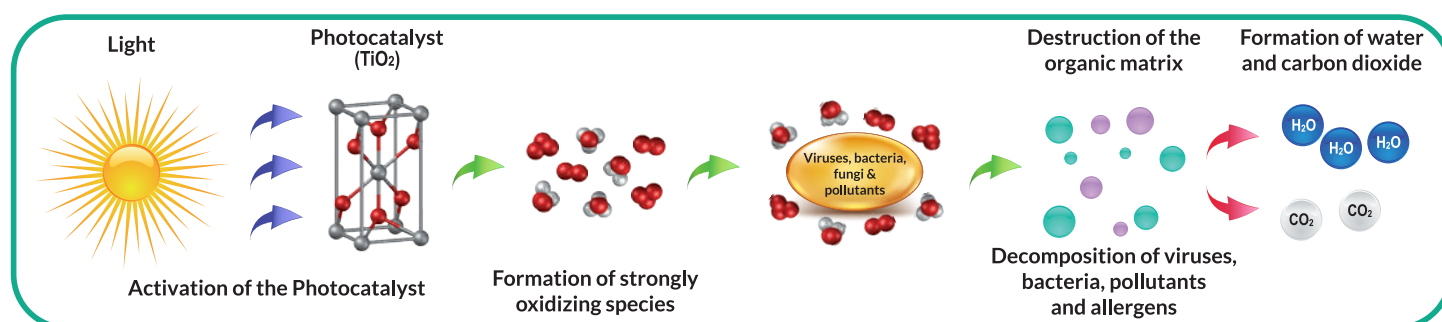


# TITANIUM DIOXIDE

MPS has always been attentive to social responsibility for a more sustainable future, and for this very reason to the eco-sustainability of its products, which are followed with particular care in every phase of the production process, starting from the exclusive use of first choice materials, such as our new "Titanium Dioxide" polymer, with anti-polluting, antibacterial, odorless properties and also with high resistance to impacts, atmospheric and chemical agents such as smog, acids, salt, ozone and UV rays.

Furthermore, this polymer responds to all ministerial certifications, those regarding fire resistance, satisfying the most demanding European regulations because it is subjected to a series of tests for load-bearing and safety checks by specialized bodies.



Its main feature is the photocatalytic activity stimulated by sunlight or lamps, where the nano particles emit electronegative charges on the surface of its particles when these are stimulated by UV rays or direct light.

The surface electronegativity promotes the oxidation of organic and non-organic substances that are close to the surface by co-absorbing dirt after surface oxidation-reduction, purifying the surrounding area.

It has been proven that Titanium Dioxide is more effective than any other antibacterial agent because the photocatalytic reaction occurs even when there are cells covering the surface and the multiplication of bacteria is active.

Furthermore, the endotoxin resulting from the death of the cell is decomposed and shows a long-term antibacterial and virucidal effect.

Generally speaking, disinfection using Titanium Dioxide is 3 times more effective than that obtained with chlorine and 1.5 times more than ozone.