

BONPET LIQUID – WATER SOLUTION OF INORGANIC AND ORGANIC COMPOUNDS



BONPET liquid is made by a unique formula. Djiro Niizama, a Japanese professor, scientist in chemistry after many years of elaborate researches synthesized an organic liquid (light water) possessing unique properties which could extinguish fire in any phase of inflammation.

BONPET liquid is a water solution of inorganic salts and organic compounds. Contact of a water solution and a fire causes, that the energy from a fire is used to

heat and evaporate water and for endothermic decomposition of chemicals added in fire extinguisher.

BONPET liquid is known for its great effect on fire extinguishing with very little liquid and its unique property, which takes away the energy of the fire, and lowers the temperature in the area.

The perfect reliability of BONPET liquid is proven by the acquired certificate ISO 9001:2008, released by Bureau Veritas.

BONPET liquid is suitable for fire class A, B in F and the consequences from the fire class C.

ENDOTHERMIC REACTION AND THE RELEASE OF GASSES, SUPPRESSING FIRE ON ITS SURFACE

The components of BONPET liquid cause a fast transport of the heat on a chemical part, using water when they get in contact with hot surface. Wet chemicals decompose into gasses (CO₂, N₂) which suffocate fire directly on burning surface, by preventing fire to get to the oxygen. The gasses suffocate fire directly on burning surface (intensive cooling and approximately 60-times bigger volume comparing to the size of a drop) due to this relatively small quantity of chemicals is needed to effectively put out a fire.

COMPARED TO A GAS EXTINGUISHER

By its effectiveness of extinguishing can be compared to extinguishing with gas. The difference is that with BONPET liquid you do not have to fill up the whole room, just a thin layer of few millimeters above the surface of a fire is enough. While decomposing endothermically, BONPET liquid takes some 10 times more energy from a burning surface, than gas would. Extinguishing a fire with gas can cause reignition, if the gas runs off too quickly. However, that cannot happen while using BONPET liquid.

COMPARED TO A WATER EXTINGUISHER

The amount of water for the same extinguishing effect, is higher when extinguishing with only water, especially because it is really hard to extinguish a fire on a vertical surface. After conducting a series of tests on an A standard fire with 6% of BONPET liquid solution, our results have shown, that we have used 20-times smaller consumption of wet chemicals than extinguishing with water. This also means, that the collateral damage caused by a fire extinguishing product is smaller when extinguishing with BONPET liquid.

BONPET LIQUID PREVENTS THE FIRE TO RE-IGNITE

Non-decomposed components of BONPET liquid that remain on the surface after the fire has been extinguished, have the ability to disintegrate and cool the surface, if there is a slight increase of temperature.

