

Innovative fire extinguishing composition Air-dispersion mixture “SFP”.

The principle of action of “SFP”:

It consists mainly in the effect of fire extinguishing agent on the breaking of radical bonds of the physical-chemical chain reaction of combustion, in the suppression of the “active centers” of this reaction, cooling the fire focus below the ignition temperature and creating a non-combustible environment by creating a cloud of inert gases in the protected volume.

Extinguishing process:

SFP air-dispersion mixture forms a vapor-air cloud of inert gases when it reaches the fire. vapor-air cloud consisting of inert gases. As a result of instantaneous endothermic reaction, there is a rapid cooling of the fire with simultaneous absorption and inhibition of combustion products, as well as the deposition of cooled vapor-air mixture on the surface of the fire. As a result, the fire is extinguished and further burning becomes impossible.

Fire extinguishing compound “SFP” is environmentally safe and non-toxic!

Due to its high extinguishing efficiency it minimizes the damage to property in case of fire. “SFP” has maximum thermal stability compared to other extinguishing compounds. The temperature of thermal decomposition of its molecules is more than 600°C. High thermal stability, creation of a cloud consisting of vapor and inert gases in the protected volume, allows to use it for extinguishing fires of smouldering materials, because at the temperature of smouldering (usually about 450 ° C), thermal decomposition practically does not occur. Thermal decomposition is subjected to about 6% of the mass of the composition applied to extinguish the fire, so no toxic substances are formed.

Air-dispersion mixture “SFP”:

- Versatility - A; B; C; E up to 1000W.
- Operation in a wide temperature range: a) Basic from 0°C to +50°C, b) Frost resistant from - 40°C to +50°C, c) Special version from - 60°C to +50°C.
- High extinguishing efficiency.
- Absence of toxicity.
- Active absorption of combustion products; No analog!
- Use in the presence of people.
- Use in confined spaces.
- Ecological purity (Biologically degradable);
- No secondary damage from the extinguishing agent.
- Does not require special disposal.

Delivery methods:

- 1) Primary firefighting equipment fire extinguishers, fire satchels, etc.
- 2) Mobile firefighting equipment:
 - fire trucks (basic and special).
 - fire airplanes, helicopters.
 - fire trains.
 - fire boats.
 - fire motor pumps.
 - adapted technical means (tractors, trailers and tractors).
- 3) Stationary firefighting systems, modular firefighting units of floor and shelf version, etc.

Scope of application of fire extinguishing compound “SFP”:

Everywhere where quality fire protection is required!

- Social and economic objects (pre-school, educational, medical, health care facilities, social institutions, objects with a large number of people);
- Manufacturing and warehouse sector.
- Oil and gas industry.
- Automotive industry.
- Military industry.
- Shipbuilding.

Precautions:

When working with preparations, use personal protective equipment: goggles, gloves. In case of contact with skin and eyes, wash off with plenty of water. In case of eye irritation consult a doctor.

Storage and transportation:

Keep out of reach of children. Transport separately from foodstuffs. Store in tightly closed containers, protect from direct sunlight.

For more information, please contact us: Info@alqudra-global.com

