

### **Innovative Heat-Resistant Gel Barrier «SF+Bio Gel Barrier».**

“SF+Bio Gel Barrier” is an aqueous gel composition that includes an aqueous absorbent material consisting of blends of copolymers, block copolymers, water and target additives. Refers to A composition for creating heat resistant protection and the process of retarding or extinguishing a fire using an aqueous gel solution.

**Purpose:** to protect a surface from heat damage or prevent ignition.

- 1) It has high fire and heat resistance.
- 2) Non-toxic (safe for humans and animals);
- 3) Biodegradable.
- 4) No secondary damage to materials from exposure to the Gel.
- 5) Ability to hold for a long time on inclined and horizontal surfaces.

#### **Principle of Action:**

Forms a continuous layer of aqueous Gel composition on the surface to be protected. Due to its structure and physicochemical data, it is retained on inclined, horizontal surfaces for a long time.

Cohesion of Gel with the surface of the object, reduces the temperature of the object below the burning temperature of the object, thereby blocking the spread and damping of fire.

Acts as an improved method for extinguishing **Class A and B fires**.

Ecology: Once in the soil, the gel-like substance helps the soil recover from fire by maintaining a higher level of soil moisture content for extended periods of time.



#### **Scope of application:**

##### **- Oil & Gas Industry:**

SF+Bio Gel Barrier Application Example:

Protection of Oil Storage and Fuel and Lubricant Storage Facilities.

In the event of a fuel tank fire, SF+Bio Gel Barrier is applied to adjacent fuel tanks.

The main task of the Gel is to contain the heating of neighbouring tanks, to prevent heating and ignition until the main fire is finally extinguishing the main fire. Once the fire has been extinguished, fire “SF + Bio Gel Barrier” is easily washed off with water from the surface of the protected object. It does not require special disposal.

##### **- Automotive industry:**

Example of the use of “SF+Bio Gel Barrier”:

In order to avoid the consequences (see photo below) of fire, melting, smouldering, you should spray Gel on nearby objects. The Gel will contain the temperature until the main firefighting forces arrive.

##### **- Railroad:**

Using a fire extinguisher, spray “Stop Fire Barrier Gel” on panels, partitions in the compartments between cars. “Stop Fire Barrier Gel” will keep the temperature down during evacuation and the arrival of the main firefighting force.

##### **- 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](mailto:Info@alqudra-global.com)