



TECHNICAL INFORMATION

SILVARA L50 EXTINGUISHING SOLUTION

DESCRIPTION

Silvara L50 is a new-generation firefighting foam with an innovative formulation which is free of fluorinated components and siloxanes. It is made of hydrocarbon surfactants, additives and fireproof salts designed for fighting class B (hydrocarbons) fires without requiring fluorinated components (AFFF) as before.

Silvara L50 presents an excellent performance in fire control and resistance. It forms a resistant foam, with a good drainage time that improves the efficiency in the extinction.

The main advantages of Silvara L50 include:

- Environmentally friendly foam without any fluorinated nor siloxane ingredients.
- It is the most versatile extinguishing solution as it can be used with aspirating and non-aspirating systems, whether in forceful or gentle application.
- Designed to be used at temperatures of -50°C with a significant low viscosity (≤ 100 cP estimated).
- It can be used at crucial low temperatures.
- Great cooling capacity, improving the resistance to reignition.
- Due to the surfactants in its composition, the surface tension of the solution is diminished. The solution goes deeper in the combustible material, which results in a more effective extinguishing.
- The stable layer of foam created provides additional protection.
- It can be easily removed with water.

APPLICATION

Principal fields of application are:

Foam systems: It can be used with low expansion foam equipment (foam chambers, nozzles...) and non-aspirating discharge devices (handline water fog/stream nozzles or standard sprinkler heads). The result is a good quality foam with long drainage time and structural strength.

DOSAGE

Silvara L50 is designed to be used at 100% when refilling devices, not to be diluted with water.

PHYSICAL PROPERTIES OF THE SOLUTION

Appearance	Amber liquid
Density 20°C , g/cm^3	$1,380 \pm 0,01$
pH, 20°C	$8,5 \pm 1,0$
Kinematic viscosity mm^2/s 20°C	≤ 10
Freezing point, $^{\circ}\text{C}$	≤ -50
Surface Tension (100% deionized water), mN/m	≤ 35
Low expansion index (100%)	$\geq 6,0$
Drainage time, 25%	$\geq 5'$

FIRE PERFORMANCE

Silvara L50 complies with standard EN 1568-3:2018 using diesel as fuel.

MATERIALS OF CONSTRUCTION COMPATIBILITY

Silvara L50 is compatible with Standard Carbon Steel "black" pipe and pipe manufactured from various Stainless Steel (304 and 316) or Brass Compounds. Other recommended materials are Polyethylene and Aluminium.

STORAGE AND HANDLING

Silvara L50 concentrate should be stored in the original shipping container or in other special containers designed for this type of products (stainless steel or epoxy lined tanks).

Place the storage container in an area at temperatures between -50°C to 60°C .

PACKAGING

Silvara products are available in plastic Pail (20, 25 or 60 l.), Drum (200 l.), Container (1000 l.) and Bulk.

