



## TECHNICAL INFORMATION

### SILVARA TANTUM EXTINGUISHING SOLUTION. CLASS A, B

#### DESCRIPTION

SILVARA TANTUM is a last generation firefighting foam with an innovative formulation free of fluorinated components, only with hydrocarbon surfactants and additives designed for fighting class A and B fires what makes a significant difference with respect to others that require fluorinated components (AFFF). In addition, although it does not contain specific components that saponify fats, SILVARA TANTUM is presented as a valid solution to be used in Class F fires.

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

The main characteristics are:

- Extinguishing solution fluorine free
- It is the most versatile extinguishing solution because its use is valid both in aspirating and non-aspirating systems, in forceful and gentle attack, and all this without containing fluorinated compounds.

- Designed to use in fire extinguishers. The product achieves a quick control and extinction time in class A, B and F fires.

- Its low temperature of use makes it a suitable product to use at any temperature.

- Great cooling capacity. It is lower the re-ignition probability.

- Because of its composition of surfactants, the surface tension of the solution is decreased. The solution goes deeper in the combustible material which results in a more effective extinguishing.

- The solution forms stable foam which provides an 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). It is obtained a good quality foam with long drainage time and structural strength.

Fire extinguishers: Special fire extinguishers for hydrocarbons, polar solvents and oils fires due to the high resistance of the foam of SILVARA TANTUM.

Its excellent wetting characteristics make it useful in combating Class A fires as well.

#### DOSAGE

SILVARA TANTUM is provided to recharge the fire extinguisher directly. It is used concentrated, not diluted.

#### PHYSICAL PROPERTIES OF THE SOLUTION

Appearance	Colorless liquid
Density, g/cm <sup>3</sup>	1,090±0,01
pH	8,5±1,0
Viscosity a 375 s-1(Brookfield), mPa.s	
	20°C ≤ 15
	0°C ≤ 25
	-10°C ≤ 40
Freezing point	≤ - 20°C
Surface Tension, (demineralized water) mN/m	≤ 30
Low expansion index (fresh water)	≥ 6,0
Drainage time, 25%	≥ 30"
Draves Tests, (demineralized water) s	≤ 30"

#### FIRE PERFORMANCE

SILVARA TANTUM complies with standards EN 1568-3:2008 and EN 1568-4:2008.

#### MATERIALS OF CONSTRUCTION COMPATIBILITY

SILVARA TANTUM 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 TANTUM 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 -20°C to 50°C.

#### PACKAGING

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

