

# B-WATER

## WETTING AND COOLING AGENT

### DESCRIPTION

B-water is a wetting and cooling agent made from hydrocarbonated surfactants, solvents and additives.

The main characteristics of B-water are:

1. It speeds up the extinguishing process as less water is used to fight the fire, than without the additives.
2. Great cooling effect. During the extinguishing process, only the surface of the drops of water is evaporated. B-water lowers the drop size with respect to water, and then, the amount of evaporated water is higher, and then, the cooling effect too.
3. It goes deeper into the combustible material which results in a more secure and effective extinguishing. It avoids glowing which usually results in burnback.
4. B-water can be stored in diluted without loss of its wetting properties.
5. B-water is designed to be used when the formation of foam isn't desirable. The product generates a controlled foam with low expansion index that will be destroyed because the special additives in its formulation, making the elimination working easier.

### APPLICATION

When B-water is added to water in concentrations as low as 0,3%, the aqueous solution receives excellent wetting characteristics that make it fit for fighting for Class A fires (solids). B-water is designed for using in high pressure systems to fight against urban and wild fires.

Do not apply on polar liquid fires.

### PROPORTIONING

B-Water can be easily used with electric or hydraulic proportioners of high accuracy or by diluting the concentration prior to its use.

In the case of using venturis, it is recommended to make a predilution so that its final concentration is at 0.3%, where it presents excellent wetting properties.

### TYPICAL PHYSICAL PROPERTIES OF CONCENTRATE

Appearance	Clear yellow liquid
Density, g/cm <sup>3</sup>	1,005-0,015
pH	8,5±0,5
Viscosity to 375 s <sup>-1</sup> (Brookfield), mPa.s	
• 20°C	<10
• 0°C	<20
Freezing Point	<-1°C

### PROPERTIES OF FOAM SOLUTIONS

Induction Rate	0,3 %
Surface Tension, mN/m	<40
Low Expansion Rate	<3
Drainage Time 25%	<2'
Draves Test	<40''

## **COMPATIBILITY WITH OTHER CONCENTRATES**

B-water is compatible with pipe manufactured from various Stainless Steel or Brass Compounds. Other recommended materials are Polyethylene and Aluminum.

Galvanized pipe and fittings must not be used in areas where undiluted concentrate can get in contact with them since corrosion will result.

## **SHELF LIFE**

The factors affecting shelf life and stability for this foam concentrate are the following: big temperature changes, handling procedures, extremely high or low temperatures and contamination by unknown materials.

Its shelf life is about 20-25 years if the storage is done according to the recommendations of vs FOCUM.

B-water can be stored in diluted form during two months without loss of its wetting properties.

## **STORAGE AND HANDLING**

B-water should be stored in the original shipping containers or in other special containers specially designed for this type of products.

Place the storage containers in an area at temperatures between 0°C to 50°C.

If the product is frozen during storage or transportation, thawing will render the product completely usable. Mixing after freeze thaw cycle is recommended.

## **ENVIRONMENTAL AND TOXICOLOGICAL PROPERTIES**

The presence of B-Water does not adversely affect sensitive species or tolerant species within aquatic life.

Biodegradability. B-Water has a biodegradability at 28 days of more than 75% and is therefore considered biodegradable.

## **PACKAGING**

B-Water products are available in plastic Pail (20, 25 or 60 L), Drum (200 L), Container (1000 L) and Bulk.

