

BONPET EXTINGUISHING LIQUID

TECHNICAL DATA SHEET

1. Composition

Bonpet liquid is a water solution of inorganic salts and organic compounds.

Compounds of the extinguishing liquid is also used in the food industry. For more details, see the SDS (Safety Data Sheet) for Bonpet extinguishing liquid.



2. Function

The components of Bonpet liquid cause a fast transport of the heat on a chemical part, using water when they get in contact with hot surface. Wet chemicals decompose into gasses (CO₂, N₂) which suffocate fire directly on burning surface, by preventing fire to get to the oxygen. The gasses suffocate fire directly on burning surface (intensive cooling and approximately 60-times bigger volume comparing to the size of a drop) due to this relatively small quantity of chemicals is needed to effectively put out a fire.

Non-decomposed components of Bonpet liquid that remain on the surface after the fire has been extinguished, have the ability to disintegrate and cool the surface, if there is a slight increase of temperature.

Bonpet liquid is suitable for fire class A, B in F and the consequences from the fire class C.

3. Technical characteristics

Physical state	Liquid
Colour	Slightly coloured liquid
Smell	Slight ammonia smell
pH	~ 8,5
Density	1,1000 – 1,1500 g/ml
Flammability	Not flammable
Solubility in water at 20°C in g/l	Completely soluble in water
Freezing point	-14,5°C
Boiling point	103°C
Flashpoint	Non-existent
Explosion point	Non-existent
Ignition temperature	Non-existent
Decomposition temperature	Above 300°C
Decomposition products	N ₂ , CO ₂ , H ₂ O

4. Bonpet Liquid classification (MPA Dresden)

Standard EN 3-7 : 2007 + A1:2007	27A, 144B, 75F (for 6 lit. Fire extinguisher Bonpet)
Freezing point	-14,5°C

5. Where we use Bonpet liquid:

- Self-activated extinguisher ampule Bonpet,
- Fire extinguisher Bonpet,
- Grenade Bonpet,
- Fire extinguisher spray Bonpet,
- Fire extinguisher trailer Bonpet,
- Mini stable system Bonpet,
- Fixed fire-safety system Bonpet.

6. Guarantee and Life expectancy

Life expectancy	5 years (appropriate storage required)
Guarantee	5 years (appropriate storage required)

After five years replacement of Bonpet liquid is required.

Reference values:

- Density of Bonpet liquid (min. 1,1000 g/ml),
- Viscosity of Bonpet liquid (1,89 mm²/s pri 20°C).

7. Handling and storage

- The product is not hazardous and does not require special handling. At work it is only important to assure compliance with the work safety regulations. Open containers must be closed tightly and safety measures, related to work with chemicals, must be taken into consideration. Do not eat or drink during the use.
- Liquid must be stored in closed containers, in the temperature range from 0°C to max 60°C. Storage does not require any special equipment or ventilation.

8. Additional reference documents and certificates

- MPA Dresden certificate, certificate of conformity KB 185/14 water based extinguished media – Bonpet,
- Safety Data Sheet (based on Hygiene Institute report, Germany).

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