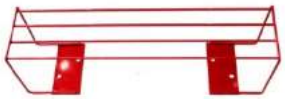
SELF-ACTIVATED FIRE EXTINGUISHING AMPOULE

TECHNICAL DATA SHEET

1. Composition

- Specially designed and shaped glass ampoules,
- Bonpet extinguishing liquid (600ml),
- Plastic spacers,
- Metal bearing rosettes (Painted or chrome-plated),
- Carrier.

Additional & options:



- Safety net,
- For better stabilization of the ampoule, in places of installation, where flickering occurs, we can offer special stabilizing washers, which mitigate the vibrations (flickering).

2. Function

When a fire breaks out in a small enclosed area and temperature rises, extinguishing liquid simultaneously begins to heat and as a result, the liquid starts to extend in the glass ampoule. When the temperature of the extinguishing liquid is approximately 85°C ± 5°C the glass breaks into pieces which allows the liquid to drop into the area, where endothermic process begins.

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.

Ampoule can be used in a way throwing the ampoule directly into the source of a fire or a mixture of the liquid Bonpet and water (6%).

3. Technical characteristics

Automatic extinguishing ampoule Bonpet

Weight	1200 g
Volume	600 ml
Length	300 mm
Diameter	60 mm
Extinguishing effect (volume enclosure)	8 m^3
Field of use	from -20°C to 60°C
Extinguishing effect when activated	radius about. 2m
Activation temperature	Liquid temperature 85 °C, deviation +/- 5 °C Surrounding temperature > 150 °C
Activation time	Depends on the type of fire

Bonpet Liquid

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 20oC v 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	N2, CO2, H2O

4. Bonpet Liquid classification (MPA Dresden)

Standard EN 3-7: 2004 + A1:2007	27A, 144B, 75F (for 6 lit. Fire extinguisher Bonpet)
Freezing point	-14,5°C

5. How to use Bonpet ampoule




6. Label on Bonpet ampoule

On each ampoule, there is a label with the following information:

- The manufacturer's name and product name,
- Use of the product,
- Fire class,
- The amount of liquid,
- The year and month of manufacture,
- Production number (serial number),
- No. technical Approval,
- Shelf life.

7. Guarantee and Life expectancy

Guarantee	10 years, without maintenance
Life expectancy	10 years, without maintenance

8. Additional reference documents and certificates

- STS (Slovenian technical approval),
- Certificate MPA Dresden, certificate of conformity KB 185/14 of extinguishing water-based liquid – Bonpet,
- Declaration of Conformity (Declaration of conformity CE),
- Certificates for certain markets and for the intended use (for example: Croatian Ships Registry),
- Safety Data Sheet for extinguishing liquid (based on Hygiene Institute report, Germany),
- Instructions and installation for ampule,
- Instructions for cleaning the ampule.