

Product Data Sheet

PRYMOS® FIRE EXTINGUISHER SPRAY GASTRONOMY 600ml

1. Preface, general statements

A huge fire is always small at the beginning. As long as the flames are locally bounded and have not overlapped the surroundings, a fire can be extinguished successfully with relatively little effort and means. The earlier this happens the less damage will occur, hence, a quick reaction is the most important factor in fire-fighting.

An inauspiciously located fire extinguisher, which can only be used with a lot of energy and might even require reading a manual, will not allow a short response time. Accordingly it is important to have an extinguisher available immediately, **ready-to-hand** in case of emergency, **most easily activated** and with reliable **extinguishing power**. PRYMOS Fire Extinguisher Sprays meet each of these demands.

- Instant usability

PRYMOS Fire Extinguisher Spray **Gastronomy** is a ready-to-use extinguisher designed to be used in kitchen, catering and gastronomy. Its dimensions are those of a big standard spray can (600 ml/20.28 fl oz) and it can easily be stored in the kitchen or fixed by a holder at a significant place (first-aid kit, near trash can) in the household or in restaurant kitchens, ensuring, the fire extinguisher is easy to reach exactly where fire can arise. In case of emergency the customer is able to act as fast as can be and does not lose precious seconds by looking for and getting out a bulky fire extinguisher. Recognized practice standards must, of course, be carefully attended to in any case.

- Simple and Safe Application

PRYMOS Fire Extinguisher Spray **Gastronomy** is provided with a plastic cap, which can be switched off with only little effort. The spray nozzle has to be used like each standard spray nozzle. The customer thus utilizes the aerosol can intuitively and operation errors are virtually out of question. Quality controlled manufacturing ensures full capacity of operational readiness.

- Extinguishing power 5A / 40F

The power of an extinguishing system is basically determined by extinguishing agents and extinguishing techniques. PRYMOS Fire Extinguisher Spray **Gastronomy** provides a specially developed extinguishing agent for fats, PM 5000, based on potassium crystals. In the process of spraying the agent through the nozzle a particular geometry of the spray flow is developed, the fire extinguishing effect of which is based on deprivation of heat and separation of the reactants. This effect is supported by the homogeneous, cone-shaped geometry of the spray flow.

Tests with the material research laboratory in Dresden proved that the PRYMOS Fire Extinguisher Spray **Gastronomy** extinguished 40 litres/1352.56 fl oz of burning fat.

With its Fire Extinguisher Spray **Gastronomy** PRYMOS provides professional extinguishing technology for non-experts in households, restaurants and kitchens. Periodic maintenance or surveillance are not required. Extinguishing system and filling capacity are conceived for one-way-use; the spray should be replaced by a new original PRYMOS fire extinguisher after use.

The operational liability of the fire extinguisher is granted for five years (60 months). In Germany the evacuated can has to be reintroduced into the recoverable substance cycle within the Dual system. Other countries are bound to different recycling systems.

2. Execution

Like all PRYMOS Fire Extinguishers PRYMOS Fire Extinguisher Spray **Gastronomy** is designed in a simple 965 ml/32.6306 fl oz customary aluminium spray can.

3. Specification

The extinguishing power of PRYMOS Fire Extinguisher Spray **Gastronomy** (fire classes A and F) was proved by successful extinguishing of standardized unit under test. The standard BS6165:2002 with the rating of **5A** was recognized for solid materials like wood, paper and textiles, the standard Norm EN 3-7:2004+A1:2007 with the rating of **40 F** for fires of edible oil and fats. Adequate certificates from a governmental recognized inspection authority for fire extinguishing agents and tools are available (MPA Dresden). The product can be used to extinguish fire at live electrical equipment with voltages up to 1000 Volts (provided a minimum distance of 1 meter/3.281 ft is maintained). PRYMOS foams fulfil the DIN standards and are admitted to the governmental recognized inspection authority for fire extinguishing agents and tools.

4. Technical Data

Diameter	74 mm/2.91 in
Height	280 mm/11.02 in
Weight	approx. 925 g/2.04 lb
Total volume	965 ml/32.63 fl oz
Volume (net)	600 ml/20.29 fl oz
Pressure	approx. 9.5 bar or (0.9 MPa) ±5%
Discharge Distance	approx. 3.5 m/11.48 ft
Discharge time	approx. 22 sec.
Discharge medium	Nitrogen
Extinguishing agent	Foam extinguishing agent PM 5000
Density	approx. 1.27 g/cm ³ (20°C)
Burst Pressure	38 bar
Working temperature	-15°C - + 60°C/5°F - 140°F
Minimum durability	60 months (5 years - ref. date on bottom of the can)

5. Description of function

On pressing the spray nozzle the extinguishing agent is released. The extinguishing effect is actively supported by the generated dispersion image.

6. Mode of functioning

The high-performance fat extinguishing PM 5000 foam is based on potassium crystals. By means of its heat binding capability water can cool down burnt material. At the same time thermic reaction conditions are disturbed with the effect that no inflammable gases and fumes arise later. The degree of droplet dispersion determines an optimal contact surface for heat transfer. Additives change the surface tension and build a film forming layer by pressure and the geometry of the nozzle. The conflagrative reaction will be stopped by this film forming layer.

7. Application areas

PRYMOS Fire Extinguisher Spray **Gastronomy** can extinguish fires of solid substances and fats up to of 40 litres/1352.56 fl oz of edible oil and fats. By the cooling impact hot surfaces can be cooled down to a bearable level.

8. Operation

After removing the cap the extinguishing agent can be sprayed directly - in intervals - into the fire source. Please keep a safe distance!

In case of contact with eyes or mouth flush with plenty of water immediately.

9. Storage

PRYMOS Fire Extinguisher Spray **Gastronomy** should be stored at a temperature between +5° and +35°C/+41° - +95° F. The extinguishing agent is frost resistant up to -15°C/5°F. The fire extinguisher should be stored at a dry place, easy to access. No storage over +50°C/+122°F. Please do not expose to extremely fluctuating temperature ranges.

10. Maintenance

Special maintenance is not required. The minimum durability of the product is 5 years (60 months). The fire extinguisher should be replaced after initial use. Even if it is not depleted, at least provide an additional spray in reserve.

11. Article packing

PRYMOS Fire Extinguisher Spray **Gastronomy** (Article No. 621)

- Cardboard with 12 PRYMOS Fire Extinguisher Spray cans **Gastronomy**
- Half pallet (264 pcs.)
- Pallet (528 pcs.)

12. Distinctive features

PRYMOS Fire Extinguisher Spray **Gastronomy** is available for fires of edible fats and oils (animal/vegetal origin) in deep fat fryers or other kitchen tools and devices. PRYMOS Fire Extinguisher Spray is provided with an original closing cap and control strip, easily recognizable for the customer.

13. Authorization

PRYMOS Fire Extinguisher Spray was examined by the MPA Dresden according to BS6165:2002; Official approval forms from the Ministry of the Interior and the Ministry of the environment in North-Rhine-Westphalia (representative reference to the Federal Republic of Germany) for active product Marketing measures are available. The extinguishing tool is identified according to German law for device- and product-security. Regulatory decrees for the packaging ordinance are strictly observed.

14. Miscellaneous

The mentioned national British standards adhere to "Specification for small disposable fire extinguishers of the aerosol type" BS 6165:2002. The rating 40 F relies to the European standardization for portable fire extinguisher EN 3-7:2004+A1:2007.

You can watch PRYMOS Fire Extinguisher Sprays in action in a video, see:

<http://www.prymos.com>

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