



# PRODUCT SHEET

## FIRE PROTECTION

### FOREST FIRES JAF 1210F

Miraculum Applications fire protection and fire extinguishing agent JAF 1210 Forrest (F) patent pending, developed by Miraculum Applications with information about the product, its properties, areas of use, handling and environmental impact. JAF 1210F saves lives, costs and reduces costs for extinguishing, decontamination and restoration after a fire. The product is used as a preventive measure and in active firefighting.

The information in this product sheet is based upon JAF 1210F's Safety Data Sheet. Complete information about JAF 1210 properties, areas of use, handling and environmental impact is available upon request in its Safety Data Sheet. Miraculum Applications stands for research, testing and knowledge in the development of their products.

#### Product Description

JAF 1210F is a water based, ISO 834 certified, environmentally friendly fire retardant, which can be used both as a preventative measure and also in active firefighting. JAF 1210F prevents forest fires from spreading as a preventive and also during active forest fires. The product also has a cooling effect.

JAF 1210F behaves as water when it leaves the nozzle but changes to a gel when it hits a target and is thus very effective when it comes to extinguishing fires. The area hit by the fire retardant does not ignite. Extinguished areas do not reignite.

JAF 1210F covers all types of ground and creates a thin layer that protects against fire. JAF 1210F is thus very effective in preventing spreading of

a fire, as it is possible to treat surrounding areas. The properties and ways, of which JAF 1210F creates possibilities for a safer, more effective, cost efficient as well as more environmentally friendly firefighting.

#### Areas of use

JAF 1210F can be used on most surfaces as a preventive towards fire and in active firefighting.

#### Application

JAF 1210F is applied through painting or spraying on the material or surface.

#### Environmental Impact

JAF 1210F is dissolvable in water. It contains a mixture of water, inorganic phosphates, sulfates and ammonium chloride (1-3%). JAF 1210F is free from bromides and other heavy metals.

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The fluid is very effective as a fire extinguisher. It is most effective if applied on the fire as a mist, consequently minimizing consumption. Minimal consumption leads to a decreased need of storage and transport, which benefits the environment. Equipment and tools are cleaned with water after use.

### Packaging

JAF 1210F is delivered in plastic containers of 1, 5, 25 and a1000 liters in either ready to use or as a concentrate.

Safety data sheets provided upon request.

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### Facts

<p><b>Form/appearance:</b> Liquid, aqueous. <b>Color:</b> Transparent. <b>Smell:</b> Weak smell of ammonia in liquid form and no smell when product has dried <b>Boiling point:</b> 100 °C <b>Freezing point:</b> -1 °C <b>pH in concentrated solution:</b> from 6 to 6,8.</p>	<p><b>Viscosity:</b> 3-15 depending on concentration. <b>Ingredients:</b> Water, Ammonium chloride. <b>Packaging:</b> JAF 1210F is delivered in plastic containers of 1, 5, 25, and a 1000 liters. <b>Storage:</b> Stored frost---free in well---sealed containers. <b>Manufactured by:</b> Miraculum Applications.</p>
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