**DESCRIPTION**

BIO FOR S is a wetting and foaming additive for forest fires, urban fires and industrial fires fighting. Wetting effect 0.5 – 1% / Foaming effect 1 – 3%.

▲ **Wetting power**: the water with BIO FOR S deeply penetrates all solids, so multiplying the extinguishing power and preventing early fire restart. BIO FOR S increases the speed of extinction on vegetation fires, car fires, house fires, dumping site fires, plastic fires, tyre fires... The saving of water eases the cleaning of destroyed houses.

▲ **Foaming power**: BIO FOR S is usable at Low, Medium and High Expansion with all known equipment. Its foam clings and sticks to vertical structure for a long time.

▲ **Corrosion**: BIO FOR S contains an additive NITRATE-FREE with a strong inhibition effect against metal corrosion.

▲ **Fuel fires**: BIO FOR S is efficient on all hydrocarbon fires, such as diesel, kerosene, petrol... So it is perfectly usable for any vehicle fires.

▲ **Environment**: BIO FOR S is harmless for environment and totally biodegradable. BIO FOR S is totally fluorine-free.

**PHYSICAL DATA**

- **Appearance**: red liquid
- **Specific gravity at 20°C**: 1.01 ± 0.02 Kg/dm³
- **pH at 20°C**: 7.0 ± 1.0
- **Viscosity at 20°C**: 4 ± 2 cStokes
- **Sediments**: 0 %
- **Surface tension at 1 %**: 25 ± 2 mN/m
- **Freezing point**: 5°C
- **Temperature of use**: 0°C / + 50°C

**FOAM QUALITY AT 3 %**

- Low Expansion > 8*
- Drainage time 25 % > 4 minutes
- Medium Expansion > 50*
- High Expansion > 700*

* Foam expansion values depend on the equipment

**PERFORMANCES & APPLICATIONS**

BIO FOR S can be used for all structural fires with tap water, sea water and brackish water. Depending on the fuel and the intervention – extinction or protection – we recommend different methods of application:

<table>
<thead>
<tr>
<th>FIRES</th>
<th>APPLICATION</th>
<th>CONCENTRATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low fires: bush, grass, sawdust...</td>
<td>Wetting</td>
<td>0.5 %</td>
</tr>
<tr>
<td>High fires: standing timber...</td>
<td>Wetting foaming LE*</td>
<td>1.0 %</td>
</tr>
<tr>
<td>Urban fires: flat, houses...</td>
<td>Foaming LE*</td>
<td>1.0 %</td>
</tr>
<tr>
<td>Vehicles fires: cars, tractors...</td>
<td>Foaming LE* / ME*</td>
<td>3.0 %</td>
</tr>
<tr>
<td>Solid fires: plastic, tyres...</td>
<td>Wetting foaming LE*</td>
<td>1.0 %</td>
</tr>
<tr>
<td>Warehouse flooding</td>
<td>Foaming HE*</td>
<td>3.0 %</td>
</tr>
<tr>
<td>Hydrocarbon fires</td>
<td>Foaming LE*</td>
<td>3.0 %</td>
</tr>
</tbody>
</table>

* LE : Low Expansion * ME : Medium Expansion * HE : High Expansion

**WARRANTY & SERVICES**

BIO FOR S has a 10 years warranty in its original packaging and at storage temperatures -30°C/+60°C. Our Quality Control Laboratory offers its analytical expertise BIO-LAB. Safety Data and Environment Data are available upon request: contact@bio-ex.fr