# INNOVATION IN LARGE-SCALE FIREFIGHTING

firexo

# fx73

**LARGE SCALE | LAND | AIR**

Technical data sheets

VALABRE
CERTIFICATION

# fx73 | LARGE SCALE

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CERTIFICATION

| Product Information | | Notes |
|---|---|---|
| **Manufacturer / Distributor** | Firexo Limited | |
| **Manufacturing Location** | UK | |
| **Product Name / Description** | fx73 LARGE SCALE | |
| **Main Ingredient** | Water | |
| **Primary Use** | Fire Retardant | |
| **Secondary Use** | Wildfire Firefighting Media | |
| **Ph @ 20°C** | 8.1 (concentrate) and 8.0 (final solution) | ± 0.5 |
| **Density (g/cm3) at 20°C** | 1.23 (concentrate) and 1.068 (final solution) | ± 0.07 (concentrate) ± 0.05 (final solution) |
| **Viscosity (mPas) at 20°C** | 8.9 (concentrate) and 4.0 (final solution) | ± 1 (concentrate) ± 1 (final solution) |
| **Boiling Point** | 98°C (final solution) | See RSSL Lab Report |
| **Freezing Point** | -31.32°C (final solution) | See RSSL Lab Report |
| **Solubility (miscibility) at 5°C and 20°C** | Suitable for soft, hard and sea water | Agitation needed for sea water |
| **Dry Extract Rate (via dehydration)** | 9.4% (final solution) | |
| **Salt Concentration** | 13% (final solution) | |
| **Sedimentation Rate** | 1.8% (final solution) | |
| **Minimum Application Rate to Achieve Fire Retardancy** | 80 g to target area* | |
| **Visibility on Application (immediate)** | Good at 15 m distance | |
| **Visibility on Application (after 24 hours)** | Visible at 1 m | |
| **Operating Temperature (application and mixing)** | -15°C to +60°C | |
| **Colour** | Clear liquid | |
| **Odour** | Pungent, sharp odour | |
| **State** | Liquid | |
| **Environmental Properties** | See separate Laboratory Report | |
| **Corrosion at 20°C and 50°C** | Compatible with 25CD4 steel. Avoid prolonged** exposure to aluminium, copper and its alloys (brass and bronze) and other metals that are not corrosion resistant. | Tested to USDA Forest Service 5100-304C (June 2007) |
| **Method of Application** | Via aspirated nozzle, branch connected to pump, plane, helicopter, drone | |
| **Certifications** | Valabre Test and Research Centre | |
| **Shelf Life** | 1 year from opening, 2 years maximum | |
| **Storage** | Store indoors between 10°C and 40°C. Avoid direct sunlight | |
| **Packing** | Not applicable | |
| **Supplied** | Bulk from 1.000 l upwards | |

* Fire Retardancy ability is increased with application rate increase.
** Prolonged exposure is in excess of 24 hours. Post exposure / use rush out equipment with water thoroughly.

## Environmentally friendly

fx73 has fertilising properties to accelerate plant regeneration and forestation post fire.

PFAS FREE

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| **Primary Use** | Fire Retardant | |
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| **Ph @ 20°C** | 8.1 (concentrate) and 8.0 (final solution) | ± 0.5 |
| **Density (g/cm3) at 20°C** | 1.23 (concentrate) and 1.068 (final solution) | ± 0.07 (concentrate) ± 0.05 (final solution) |
| **Viscosity (mPa.s) at 20°C** | 8.9 (concentrate) and 4.0 (final solution) | ± 1 (concentrate) ± 1 (final solution) |
| **Boiling Point** | 98°C (final solution) | See RSSL Lab Report |
| **Freezing Point** | -31.32°C (final solution) | See RSSL Lab Report |
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| **Visibility on Application (after 24 hours)** | Visible at 1 m | |
| **Operating Temperature (appllication and mixing)** | -15°C to +60°C | |
| **Colour** | Opaque, violet-coloured liquid | |
| **Odour** | Pungent, sharp odour | |
| **State** | Liquid | |
| **Environmental Properties** | See separate Laboratory Report | |
| **Corrosion at 20°C and 50°C** | Compatible with 25CD4 steel. Avoid prolonged*** exposure to aluminium, copper and its alloys (brass and bronze) and other metals that are not corrosion resistant. | Tested to USDA Forest Service 5100-304C (June 2007) |
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| **Shelf Life** | 1 year from opening, 2 years maximum | |
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| **Packing** | Not applicable | |
| **Supplied** | Bulk from 1.000 l upwards | |

* LAND relate to application method i.e. LAND is applied by people.
** Fire Retardancy ability is increased with application rate increase.
*** Prolonged exposure is in excess of 24 hours. Post exposure / use flush out equipment with water thoroughly.

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| **Manufacturing Location** | UK | |
| **Product Name / Description** | fx73 AIR* | |
| **Main Ingredient** | Water | |
| **Primary Use** | Fire Retardant | |
| **Secondary Use** | Wildfire Firefighting Media | |
| **Ph @ 20°C** | 8.0 (concentrate) and 8.0 (final solution) | ± 0.5 |
| **Density (g/cm3) at 20°C** | 1.22 (concentrate) and 1.065 (final solution) | ± 0.07 (concentrate) ± 0.05 (final solution) |
| **Viscosity (mPa.s) at 20°C** | 196 (concentrate) and 64.3** (final solution) | ± 4 (concentrate) ± 10 (final solution) |
| **Boiling Point** | 98°C | See RSSL Lab Report |
| **Freezing Point** | -31.32°C | See RSSL Lab Report |
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| **Method of Application** | Via aspirated nozzle, branch connected to pump, Plane, Helicopter, Drone | |
| **Certifications** | Valabre Test and Research Centre | Valabre Test and Research Centre |
| **Shelf Life** | 1 year from opening, 2 years maximum | |
| **Storage** | Store indoors between 10°C and 40°C. Avoid direct sunlight | Store indoors between 10°C and 50°C. Avoid direct sunlight |
| **Packing** | Not applicable | |
| **Supplied** | Bulk from 1.000 l upwards | |

* Relate to application method i.e. AIR is applied via aerial appliances such as helicopters, aircraft and drones.
** 64.3 mPa.s measured after 15 minutes.
*** Fire Retardancy ability is increased with application rate increase.
**** Prolonged exposure is in excess of 24 hours. Post exposure / use flush out equipment with water thoroughly.

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