INNOVATION IN LARGE-SCALE FIREFIGHTING

firexo

fx73

LARGE SCALE | LAND | AIR

Technical data sheets

VALABRE
CERTIFICATION

fx73 | LARGE SCALE

VALABRE
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

fx73 | LAND

VALABRE
CERTIFICATION

Product Information		Notes
Manufacturer / Distributor	Firexo Limited	
Manufacturing Location	UK	
Product Name / Description	fx73 LAND*	
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 (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
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 (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)
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	

* 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.

Environmentally friendly

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

PFAS FREE

fx73 | AIR

VALABRE
CERTIFICATION

Product Information		Notes
Manufacturer / Distributor	Firexo Limited	
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
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	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)
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.

Environmentally friendly

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