

INNOVATION IN LARGE SCALE FIREFIGHTING



fx73

LARGE SCALE | LAND | AIR
Technical data sheets





fx73 | LARGE SCALE



Product Name	fx73 Large Scale	Notes
Manufacturer/ distributor	Firexo Limited	
Manufacturing Location	UK	
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 (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	minus 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	80g to target area*	
Visibility on Application (immediate)	Good at 15m distance	
Visibility on Application (after 24 hours)	Visible at 1m	
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 to +40°C.	
Packing	Avoid direct sunlight	
Packing	Not applicable	
Supplied	Bulk from 1,000L upwards	

** 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.



100% environmentally friendly

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



fx73 | LAND



Product Name	fx73 LAND	Notes
Manufacturer/ distributor	Firexo Limited	
Manufacturing Location	UK	
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	minus 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	80g to target area*	
Visibility on Application (immediate)	Good at 15m distance	
Visibility on Application (after 24 hours)	Visible at 1m	
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	
Shelf Life	1 Year from opening, 2 years maximum	
Storage	Store indoors between 10°C to +40°C.	
Packing	Avoid direct sunlight	
Packing Supplied	Not applicable	
Supplied	Bulk from 1,000L upwards	

** Fire Retardancy ability is increased with application rate increase.
 * LAND and AIR relate to application method i.e. LAND is applied by people and AIR is applied via aerial appliances such as helicopters, aircraft and drones.
 *** Prolonged exposure is in excess of 24 hours. Post exposure use flush out equipment with water thoroughly.



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fx73 | AIR



CERTIFICATION

Product Name	fx73 AIR	Notes
Manufacturer/ distributor	Firexo Limited	
Manufacturing Location	UK	
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		
Visibility on Application (immediate)		
Visibility on Application (after 24 hours)		
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 to +40°C. Avoid direct sunlight	Store indoors between 10°C to +50°C. Avoid direct sunlight
Packing	Not applicable	
Supplied	Bulk from 1,000L upwards	

* LAND and AIR relate to application method i.e. LAND is applied by people and AIR is applied via aerial appliances such as helicopters, aircraft and drones.

*** Prolonged exposure is in excess of 24 hours. Post exposure/use flush out equipment with water thoroughly.

**** 64.3 mPa.s measured after 15 minutes.



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