

Technical Data Sheet

HydroGel BM 048

Description

Multi purpose, environmentally safe fire extinguishing agent

Application examples

Class A, B, D, F fires and Lithium Ion battery fires (class L)

Benefits

Effective for wide range of fire types
 Sticking to heat surfaces for maximum cooling
 Maximum prevention against re-ignition
 Environmentally safe
 Safe to use

Status

Commercial, NTA 8133 (draft EN 3-11) certified, EN3-7 certified

Characteristics

Agent	Thermo-responsive gel
Additive type	Clay
Density	1,0 kg/dm ³ (ISO 1183)
Viscosity	Thixotropic
	At 25 degr. C: 200 mPas (static)
	At 25 degr. C: 30 mPas (dynamic 100 rpm)
	At 25 degr. C: 1-5 mPas (dynamic 10000 rpm)
	At 60 degr. C: 32.000 mPas (static)
	At 60 degr. C: 70 mPas (dynamic 100 rpm)
Freezing temperature	0°C (ISO 11357-1/-3)
pH	5 - 7
Biobased content	>99%
Eco-Toxicity	Biodegradable
	Safe for environment
	OECD 202 and EU C.2: 48h-EC50 > 100 mg/L (nominal)
	OECD 201 and EU C.3:
	Endpoint EC50
	Growth Rate > 100 mg/L
	Yield > 100 mg/L
Appearance	white-greenish liquid / odorless
Lifetime	>10 years in protected atmosphere
Other	Mild corrosive

Applications

Handheld fire extinguishers	2, 3, 6 and 9 liters
Sprinkler systems	
Water based extinguishing systems	
Fire classes	A, B, D, F + Lithium battery acc. NTA 8133 (Draft EN 3-11)

Other

Packaging	1000 and 300 liter plastic IBC container or 25 liter plastic jerrycan
Storage recommendation	60 months from delivery in original package
	Keep cool and dry
	Ambient temperature > 5 degr.C
Safety and handling	Prevent foaming during filling
	Rinse immediately with sufficient water when spilled

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