

Firefighting Foam RFC-105

100066

RFC-105 is a synthetic foam concentrate with good wetting properties; specially formulated to obtain foams for fighting "class A" fires (forest, urban, structural, etc.) that can also be used effectively in combat for "Class B" fires (hydrocarbons).

It can be used with low, medium and high expansion foam equipment, with not aspirating equipment (water spray nozzles, sprinklers, etc.) and CAFS (Compressed air systems). When used in "Class A" fires, foam adheres well to the material and the fluid drained from the foam, with good wetting properties, penetrates into the substrate preventing a possible reignition.

When used to fight class B fires can be applied with low and medium expansion nozzles. In low expansion, it is advisable to use gentle application. It is particularly interesting the use of RFC-105 with compressed air foam systems (CAFS) in class A and class B fires, where its high efficiency reduces the water consumption.

RFC-105 nominal proportioning rate is 0.5% in fresh or sea water. This rate can be varied between 0.2 and 1.0%, depending on the type of foam desired. High concentrations (1%) are recommended for high expansion foams and when slow drainage times are desired. Having such a low viscosity, the concentrate dissolves very quickly in water, nearly without agitation.

RFC-105 is highly biodegradable.

Storage:

The foam concentrate shall be stored at temperatures between -10° and +50°C, preferably in their original containers, sealed. The product does not have expiry date.

Cautions!

Foams should not be used in contact with electrical equipment, neither with chemical products that can react with water. It is recommended to avoid the contact of the foam concentrate with the skin. In case of eye splashes wash with plenty of water. In case of ingestion do not induce vomit, drink water and take medical advice.

Technical specifications

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Specific gravity @ 20°C	1.03
pH @ 20°C	7.5 - 8.0

Viscosity, cone and plate, mPa.s @ 20°C	23
Freezing point, °C	<-11
Lowest temperature for use, °C	- 10°C

Dilution rate	0,5%	1%
Wetting test (ASTM D2281-68), min:s	0.25	0.06
Surface tens. at 20°C, mN/m (Demineralised water)	24.0	24.0
Interfacial tens. with cyclohexane at 20°C, mN/m	4.5	4.5
Low Expansion Foam /Medium Expansion		
Foam Expansion Index	8.0/80	8.5/110
25% Drainage Time, min:s	5:00/8:00	7:00/12:00

RFC-105 has approval certification according to EN-1568-1 and EN-1568-3. Below they are the results of some fire tests:

Standard	EN 1568-1	EN 1568-3
Fuel	Heptane	Heptane
Application	-	Gentle
Dilution rate, %	1	0.5
Water	Fresh	Fresh
Extinction	1:07	2:37
Burnback %, min:s	1%,1:52	25%,10:17
Classification	Pass	IIIC

Certified according to: EN-1568-1 and EN-1568-3.

