

FIRECHIEF 6% AFFF FIRE FIGHTING FOAM



PROPORTIONING INFORMATION

- 6 parts foam concentrate to 94 parts water

FOAMING PROPERTIES

Foam expansion properties will vary depending on several factors including:

- Using salt or fresh water
- Water hardness
- Equipment characteristics
- Equipment flow rate

For example, aspirating devices will produce typical expansion ratios of between 6:1 and 10:1 and non-aspirating devices between 2:1 and 4:1. Always check your equipment's operation manual for guidance.

ENVIRONMENTAL IMPACT

- Contain no fluorosurfactants of chain length greater than C6
- Biodegradable
- Butyl carbitol free
- Low fluorine content (typical value: 0.3% fluorine)
- Low toxicity to aquatic organisms

APPLICATIONS

6% AFFF-C6 concentrate provides quality protection wherever hydrocarbons present a fire risk:

- Offshore platforms and helidecks
- Petrochemical refining, processing and storage facilities
- Marine terminals, power stations and road / rail loading racks
- Rapid Intervention Vehicles and aircraft hangar systems

Produced AFFF foams can also be used as wetting agents for combating Class A fires (i.e. tyres, paper, wood) and for providing a vapour suppression blanket on hydrocarbon spills.

DISCHARGE EQUIPMENT

6% AFFF-C6 concentrate is suitable for use with:

- Foam chambers
- Aspirating and non-aspirating sprinklers or spray nozzles
- Water fog nozzles for handlines and monitors
- Foam makers for use with either Floating Roof or Bund Protection systems

STORAGE AND SHELF LIFE

Best stored as supplied in original, unopened containers. Suitable for storage in containers and tanks manufactured from:

- Stainless steel (Type 304L or 316L)
- High density cross-linked polyethylene
- RFP – vinyl ester epoxy resin only

If kept in the original manufacturer's supplied container and stored between 1.7°C and 49°C, a shelf life of at least 10 years can be expected. To prolong the shelf life of any AFFF, do not expose to temperature extremes and prevent contamination from foreign materials.



COMPATIBILITY

Please note: this foam concentrate is not certified for use in Firechief Extinguishers

Laboratory tests have shown 6% AFFF-C6 concentrate is compatible in all proportions with other high quality aqueous film forming foams and ABC and BC fire fighting powders.

However, in order to maintain EPA 2010/15 compliance, it is recommended that **this foam is not mixed with any other foams.**

As recommended by NFPA 11, we would advise that if mixing foam concentrates from different manufacturers a compatibility study is carried out beforehand. Different types of foam concentrates - for example AFFF and Protein Foams - should never be mixed.

DISPOSAL

Produced 6% AFFF-C6 can be safely disposed of in biological waste water treatment systems.

INSPECTION AND TESTING

As recommended by NFPA11, BS:EN 13565-2:2009 and BS 5306, 6% AFFF-C6 concentrates should be inspected and tested at least annually as part of your fire fighting foam maintenance programme.

PHYSICAL PROPERTIES

Model	AFFF6/20
Product Code	119-1030
Capacity (ltr)	20
Dimensions (mm)	400 x 295 x 245
Filled Weight (kg)	22.2
Appearance	Clear pale straw liquid
Specific Gravity	1.02
pH at 20°C	7 - 8
Viscosity @ 20°C mPas	~2
Surface tension @ 20°C N/m	0.019
Freezing point (°C)	-3
Lowest use temp. (°C)	2
Expansion*	≥ 6.0
25% drainage (minutes)	≥ 3.0
Max. storage temp. (°C)	49
Min. storage temp. (°C)	1.7
BOD/COD 28 days	>55%
Freeze/thaw effect	None

* Foam quality will depend on the foam equipment used and the operating conditions. The above are tested in accordance with UK Defence Standard 42-40.

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