



شركة المصنع السعودي لأجهزة الإطفاء
SAUDI FACTORY FOR FIRE EQUIPMENT Co.

Technical Data Sheet

SFR-ECO C6

1x3 AR-AFFF

Foam Concentrate

Nominal 1 or 3% Alcohol Resistant
Aqueous Film Forming Foam



UL FILE NO. EX6069



We are very proud to be a vital part of the development of Saudi Arabia and Middle East since **1983** in fire protection industry.

SFFECO

was the First Fire Fighting Company in the Kingdom of Saudi Arabia to be granted the ISO 9001 certification based on recommendations from LPCB of UK for the whole organization and its activities.

SFFECO is an ISO9001 certified manufacturing company, a market leader and specialize in manufacturing of fire-fighting equipment in the world. SFFECO has a long standing established reputation for pioneering innovation ever since its foundation in 1983.

SFFECO has its own state-of-the-art manufacturing plants in Riyadh and Dubai producing end-to-end range of products for the fire fighting industry matching international standards in quality.

SFFECO with its innovative approach provides the entire gamut of products that caters to the needs of the Fire Protection and Fire Fighting industry. This makes SFFECO a one-stop-shop for customers, fulfilling their end-to-end needs in products, solutions and services for the industry.

SFFECO continually expands upon its knowledge and services to keep its clients updated with the latest Fire Fighting Technology in the world. The product range manufactured by SFFECO confirms and holds approval to international standards.

Quality Services

With a large number of highly qualified staff, SFFECO is certified and licensed to supply equipment with its own comprehensive designs, installations, commissioning and maintenance services throughout the GCC, Asian, African and European countries. SFFECO provides excellent after sales service and earns utmost customer satisfaction by providing functional and technical training and support, and by resolving and troubleshooting issues arising at the client site.

Facilities

As global leaders, SFFECO believes in manufacturing quality products and services and extended exceptional service standards in the global market thereby rewarding our customers by keeping their investments safe and secure. The manufacturing plant has grown steadily since 1983 to accommodate modern hi-tech equipment and highly skilled professionals and optimal ISO certified operations to enable roll out of products that match global standards to serve the growing market needs.



Description

SFR-ECO-C6 1x3 AR-AFFF Concentrate is formulated from special fluoro-chemical and hydrocarbons surfactant, high molecular weight polymers and solvents. It is multipurpose foam as it has application both in class A & class B type

Fires- water miscible (polar solvents) & water immiscible fuels (Hydrocarbons).When applied over polar solvents it forms polymeric membrane to help prevent the release the fuel vapor. Due to high drainage time it has better cooling effect.

Features

- Rapid Flame Knock Down on Class B Fires
- Strong Fuel Vapor Suppressions
- Long Shelf Life, Usable as Pre-Mix
- Excellent Fuel Shedding Property
- Compatible with Fresh/Sea Water and with Dry Powder and Suitable for use as Twin Agent
- Suitable for use with Nfpa Class A & Class B Fires.

High Risk Protection

Civil and military aviations, oil refineries, offshore oil platforms, oil tankers, bulk fuel oil storage etc.

Method of Application

SFR-ECO-C6 1x3 AR-AFFF Concentrate can be used with standard & conventional low/medium expansion foam making equipments with fresh /sea/brackish water, either as a solution or through foam induction systems. This unique quality of SFR-ECO-C6 1x3 AR-AFFF Concentrate makes it suitable for use in special applications like crash Tenders/Monitors/Foam chambers Air-aspirating and non-aspirating sprinkler heads or spray nozzles/Air-aspirating foam nozzles/portable foam Extinguishers etc. SFR-ECO-C6 1x3 AR-AFFF Concentrate, applied into fixed water spray or sprinkler installations for protection of stores, ware-houses, tanker loading areas and other local risks involving a spilled fuel fire, has been found extremely effective. Various crude oils, gasoline, diesels fuels, aviation fuels, etc. its excellent wetting characteristics make it suitable in combating class A fires as well. It can be used with dry chemical extinguishing agents without regard to the order of application to provide even greater fire protection capability.

Storage

When stored in the packaging supplied (poly-ethylene jerrycans, drums) and within the temperature limits specified by the manufacturer, the shelf life of SFR-ECO-C6 1x3 AR-AFFF Concentrate is 15-20 years. if the product is frozen during storage or transportation, thawing will render the product completely usable. Mixing after freeze thaw cycling is recommended

Specifications



Induction Rate

SFR-ECO-C6 1x3 AR-AFFF Concentrate can be easily proportioned using most conventional equipments such as:

1. Balanced pressure and inline balanced pressure pump proportioning equipment
2. Balanced pressure bladder tank proportioners
3. Around-the-pump and through-the-pump proportioners
4. Fixed or portable(in-line) venture proportioners
5. Handline nozzles with fixed induction/pickup tubes

The minimum and maximum usable temperature for SFR-ECO-C6 1x3 AR-AFFF in this equipment is 1.7°C and 49°C.

Application

SFR-ECO-C6 1x3 AR-AFFF Concentrate can be used on either conventional class B fuels or the polar solvent type class B fuels. Its excellent wetting characteristics, makes it suitable in combating class A fires as well. It requires low energy to make foam it can be used with both aspirating and non-aspirating discharge devices.

Compatibility

SFR-ECO-C6 1x3 AR-AFFF Concentrate is compatible with all types foam & Dry chemical powder.

Ordering Information

SFR-ECO-C6 1x3 AR-AFFF Concentrate is available in 20L, 30L capacity HDPE pails, 200L capacity HDPE drums, 1000 L heavy duty seaworthy HDPE containers

Typical Properties

PROPERTIES	AVERAGE VALUES
Appearance	Amber color gel liquid
Smell	Characteristics
Specific Gravity at 20°C	1.00=1.04
pH at 20°C	7.0-8.5
Viscosity at 20°C	Max 900 CPS
Spreading Co-efficient	3.0-6.0
Pour Point	(-) 2°C
Expansion	7.0-8.0
25% drainage time	10-12 minutes
Storage / Usage temperature	35°F (1.7°C) to 120°F (49°C)

All performance like Foam quality, Fire extinction time and burn back are according to the relevant standard.

In line with our policy of continuous product improvement, SFFECO reserves the right to modify specifications without prior notice.

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