



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

Technical Data Sheet

SFR-3% FFFP

Film Forming Fluoroprotein Foam Concentrate

Nominal 3%
Film Forming Fluoroprotein



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 3% FFFP (FILM FORMING FLUOROPROTEIN FOAM CONCENTRATE) is having superior flame knocking down capability and better burn back resistance with dry chemical powder.

SFR 3% FFFP concentrate is produced from hydrolysed Protein Foam Compound with preservatives and special type of fluorinated surface active agent which imparts good synergistic effect and also many other advantages as outlined below, over ordinary Protein Foam and makes it suitable for protection of high risk areas:

Features

- Strong Foam Blanket, Stable & Heat Resistant to Re-Ignition,
- Long Shelf Life, Usable as Pre-Mix,
- Sub Zero Pour Point,
- No Detergent,
- Biodegradable,
- Excellent Fuel Shedding Property
- Quality not affected by freezing / thawing
- Compatible with Fresh / Sea Water and with Dry Powder and Suitable for use as Twin Agent

Induction Rate

SFR 3% FFFP - 3 parts of concentrate and 97 parts of water

Method of Application

- Low & Medium Expansion Branch Pipes and Monitors
- Non - Aspirated Spray Nozzle
- Fog Branch Pipes
- Fog Sprinklers and Monitors
- Top Pouring and Sub - Surface Injection
- Foam / Water Sprinklers

High Risk Protection

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

Material of Construction

SFR 3% FFFP concentrates have neutral pH and generally no corrosion problem will occur with metals or plastic. Recommended construction materials are stainless steel (Type 304 or 316), high density cross linked polyethylene(HDPE) or reinforce polyester(isophthalic) polyester resin, epoxy resin) with a vinyl ester resin internal layer coating (50-100 mils). Fittings in foam concentrate pumps and valves may be made from Brass (Red Brass, normal Brass) bronze or gunmetal.

Storage

If stored in original container, 5 years guaranteed shelf-life. Freezing/Thawing does not change the quality. Recommended storing temperature should be 35°F (1.7°C) to 120°F (49°C).

Specifications



Ordering Information

SFR 3% FFFP is available in UV protected 20L, 30L capacity HDPE pails or 200L capacity HDPE drums as per IS7959.

Typical Properties

PROPERTIES	AVERAGE VALUES
Appearance	Dark Brown Liquid
Smell	Characteristics
Specific Gravity at 20°C	1.14-1.18
pH at 20°C	6.5-8.5
Viscosity at 20°C	< 20cSt
Surface tension	Approx 18dynes/cm
Interfacial Tension	<4mN/m
Pour point	Less than (-) 15°C
Freezing Point	(-)17°C
Sludge Content (% v/v)	Less than 0.25
Expansion	≥ 7.0
25% drainage time	≥ 3:00
Storage / Usage temperature	35°F (1.7°C) to 120°F (49°C)

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

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