



# AFFF

- Rapid flame knock down
- Resists burnback for safer firefighting
- Suppresses vapours
- Cools heat sources on contact

## Overview

Aqueous film forming foam (AFFF) concentrates are high performance synthetic foam agents comprised of detergent and fluorocarbon surfactant suited for use on class B hydrocarbon fuel fires such as oil, petroleum and aviation fuels.

AFFF agents produce foam with the inherent ability to produce a vapour suppressing aqueous film on the surface of the hydrocarbon fuels. They are known to have extremely fast fire knockdown capabilities which make them particularly effective for use in rescue situations involving hydrocarbon fires.

## Performance

AFFF provides a rapid flame knock down on class B fires involving water immiscible flammable liquids.

On application, the foam spreads rapidly to form an aqueous film and foam blanket. The aqueous film suppresses the fuel vapours. The foam blanket provides an additional safety layer to the aqueous film effectively excluding oxygen from the fuel surface, extinguishing the fire and preventing re-ignition. Additionally it provides a cooling function on the fuel by enclosing water within the foam bubbles and makes the water float on fuel surfaces despite its usually higher density.

## Applications

Their fast fire knockdown ability makes AFFF agents particularly useful in applications that involve quick rescue from hydrocarbon fires. In particular the offshore oil industries use AFFF agents for process areas and helideck protection whilst the aviation sector would use AFFF concentrates within ARFF vehicle for airport crash rescue. Although very effective on class B hydrocarbon fires, AFFF agents must not be used on polar solvent fires.



## APPLICATIONS FOR AFFF AGENTS

- Aviation
- Hydrocarbons, bulk storage, transportation, processing and handling
- Petrochemical facilities
- Marine and offshore
- Manufacturing
- Municipal fire brigades

## Usage

AFFF concentrates can be used with a wide range of fire fighting equipment, both in standard water equipment and through low and medium expansion foam equipment, these include: sprinklers, monitors, foam generators, foam branchpipes, handlines and foam chambers.

AFFF can be proportioned within all standard mixing systems such as:

- Balance pressure pump proportioning equipment
- Bladder tank and related proportioners
- Around-the-pump proportioners
- Fixed and portable in-line venturi type inductors
- Nozzles with built-in induction/pick up tubes

## Approvals

SKUM is wholly committed to approving our agents to the latest industry standards. SKUM AFFF agents are tested at internationally recognised test facilities and approved to the standards most appropriate to that industry, application and risk.

## Varieties

Offering a wide choice of different concentrations, packaging capacities and approval types, SKUM manufactures AFFF agents to address a wide range of applications at our proprietary manufacturing facility in Levate, Italy.

## SKUM Foam Solutions

As a brand 'SKUM' is synonymous with fire-fighting foam:- SKUM literally means foam in Swedish.

From its foundation in Sweden in the 1930's SKUM has become the global standard of foam fire suppression in high-risk, high-stake industries.

SKUM offers a complete range of foam agent concentrates designed with performance, efficiency and environmental impact in mind. Products are tested at internationally recognised facilities and approved to the standards most appropriate to that industry, usage and risk.

As a manufacturer of both foam hardware and foam agents, SKUM is able to supply single component needs as well as complete end-to-end systems. An unrivalled history of fire suppression experience and a dedicated Foam Technical Service Team mean that SKUM is happy to address and confident to meet any customer fire-fighting foam requirement.