



Protein Based Foam Agents

- High heat resistance
- Resists burnback for safer firefighting
- Wide range with proven technology
- Advanced formulations for high performance

Overview

Protein foams are agents primarily produced from naturally occurring hydrolyzed proteins. These are combined with foam stabilizers (metal salts), bactericide, corrosion inhibitors, freeze protection additives and solvents to create the foam concentrate.

A wide variety of protein foams are available with different applications and levels of performance. More advanced fluoroprotein foams (FP) and film forming fluoro protein foams (FFFP) also include fluorochemical additives which increase the performance of the foam by improving flame knockdown speed and fuel tolerance. Protein foams also exist with alcohol resistant (AR) capabilities.

These make high performance protein foams effective in an extensive range of industries and applications at low expansions.

Performance

Protein foam agents produces a stable foam with a high heat resistance and good burnback resistance.

The fluorochemical additive in fluoroprotein foams increases their spreading velocity and thus flame knockdown speed for better performance. Increased fuel tolerance also means improved foam stability and greater efficiency.

Applications

The inherent characteristics of high heat and good burnback resistance means that protein foams are generally preferred by the oil industry for use on hydrocarbon fuels such as the various crude oils, gasolines, diesel fuels and jet fuels. The improved characteristics of fluoroprotein foams means that they are extensively used in the petrochemical sector particularly in large tank farms and refinery protection applications.



APPLICATIONS FOR PROTEIN BASED FOAM AGENTS

- Hydrocarbon bulk storage, transportation, processing and handling
- Petrochemical refineries
- Marine

Usage

Protein and fluoroprotein concentrates can only be used with air aspirating type discharge devices through most conventional foam equipment. These include monitors, foam generators, foam branchpipes, and foam chambers.

They 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
- Branchpipes with build-in induction systems

Approvals

SKUM is wholly committed to approving our agents to the latest industry standards. SKUM protein based 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 protein based foam 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.