



**“SKUM – A winner in the firefighting market”**

## Introduction

**SKUM** is an international company active in the international fire fighting market through subsidiaries and distributors in most corners of the world.

**SKUM** (the Swedish word for "foam") was registered as Svenska SKUM släcknings AB (The Swedish Foam Extinguishing Co. Ltd) in Stockholm on January 13, 1933. **SKUM's** foundation can in fact be attributed to an invention by two Danish engineers setting a significant mark in foam technology.

## Innovators in foam extinguishing systems

**SKUM** was the first company to deliver a Semi-Subsurface system for Storage Tank protection and its HotFoam® High Expansion foam system using inside-air is the state of the art.

The legal entity is known under the name **Svenska SKUM** but we are widely known in the market as SKUM.

**SKUM** is part of the Tyco Safety Products group.

## SKUM Applications

### Oil & Petrochemical

Bund Protection  
Jetty Protection  
Loading Racks  
Spill Fire  
Storage Tank  
Vapour Suppression

### Marine

External FiFi Systems  
FiFi 0  
FiFi I  
FiFi II  
FiFi III

### Warehouses & Production

Foam Sprinkler  
Hi-Ex Systems  
Hot Foam®

## Jetty Protection

## Jetty Protection



### Jetty Protection

The loading and off-loading of hydrocarbon tankers and chemical carriers at marine dock facilities potentially present the most hazardous operations in handling these products. This covers so well the jetty, the ship and the surrounding waters. Strange as it may seem, international rules and guidelines as to methods of protection are limited. SKUM, however, has been deeply involved in both design and specifications of many such systems around the globe. In fact several items in the extensive SKUM equipment range have been specifically developed for this purpose, placing SKUM in the unique position of being able to offer both design advice and supply of equipment.

The following three areas must be considered when designing a foam system for the protection of a marine jetty:

- a) The product transfer area
- b) Under dock area
- c) The vessel - berthed alongside is best protected by elevated remote- controlled monitors.

In selecting suitable foam concentrates, consideration should be given to the type of liquid risks handled. In the case of hydrocarbons, a fluoroprotein- based foam concentrate will give the most effective and secure foam blanket. However, whenever non-aspirating nozzles are selected, as often is the case with dual purpose monitors, an AFFF concentrate should be used. A multi-purpose foam concentrate is to be used where water miscible fuels are handled.

As there are numerous factors special to such facilities which demand careful consideration, it is strongly recommended to consult SKUM at an early stage in the planning of a suitable jetty foam system design.

## Monitors

## Monitors



### Foam/Water Monitors and Monitor Trailers

Monitors are normally used as back-up to the fixed systems protecting the tank as such or the bund surrounding it. SKUM has developed a wide range of monitors from 1,000 l/min up to more than 20,000 l/min. The FJM-series of monitors are the latest

in the SKUM range featuring compact design and low weight, while the capacity of the integrated fog/jet nozzle can be set on site.

These monitors can be installed on different types of trailers suited to customers' needs and requirements, and optionally even with foam concentrate tanks. Both AFF and fluoroprotein foam concentrates can be used.

## Storage Tank

### Storage Tank Protection



## Storage Tank Protection

Fixed foam systems, not requiring massive deployment of equipment or manpower, undoubtedly provide the best protection method. The type of system to be chosen depends on tank structure and contents. Trailer-mounted monitors are often used as back-up for fixed foam systems. As a response to the trend of increasingly larger floating roof tanks, large capacity monitor trailers are now also required as primary system.

SKUM, having developed the first tank protection system 1949, has the experience necessary to provide both hardware and system design expertise to cope with every possible scenario and the actual product range includes fixed systems as well as large capacity monitor trailers. All SKUM tank protection components are made of high quality materials, such as stainless steel and bronze, to avoid corrosion, minimise maintenance and attain maximum life span.

## Marine

### Marine



*“At sea you can’t call the  
Fire brigade – better call  
**SKUM**”*

## Introduction

The marine environment is a world of its own also when it comes to fire protection Today's ships call for the most advanced fire fighting systems.

The marine environment with its harsh condition, -may it be corrosion, or extreme weather conditions- demands the very best of materials and equipment. **Svenska Skum** designs all her equipment to meet these needs. **Svenska Skum** manufactures and markets systems and equipment for all sorts of fire protection needs in the marine area.

**Svenska Skum** is well known internationally for quality products and inventiveness when it comes to marine fire fighting.

*“Hot Foam™ from **SKUM**  
can save you from burning  
inferno”*

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### Warehouses

Owing to their diversified and by nature often hazardous content, warehouses represent not only high monetary value but also a great potential fire risk.

As the majority of stored goods is packed in cartons made of paper, common water sprinklers are deemed less suitable as the secondary damage caused by the released water may substantially exceed the fire damage itself. Some of the stored goods can possibly also react with large quantities of water, which subsequently can result in spreading combustion or constraining the fire fighting process as such.

And so foam application presents a viable alternative. In the voluminous space of a warehouse, High Expansion Foam (usually referred to as Hi-Ex Foam) seems the ideal choice owing to its minimal water content. A Hi-Ex system will rapidly, within minutes after its release, fill the protected volume from floor to ceiling with a foam layer. Putting it simply – for each liter of water used, 600 – 1000 liters of foam bubbles are generated, commonly referred to as high expansion factor of identical magnitude. And so the great reduction of water minimizes the otherwise detrimental effect on the stored goods.

**SKUM**, always having been in the forefront of Hi-Ex system development, is also pioneer of the latest, revolutionary Hot Foam® system. The expertise in Hi-Ex installations is based on hundreds of systems installed around the world since full-scale tests were performed back in 1965.

**SKUM** has come a far way from its start in 1933 through product developments based on solving its customer's problems. This has given a position in the market place assuring her customers continuity and premier service even in the coming century.

For further informations contact

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