

TECHNICAL DATA SHEET

PROTAL-P Protein based foam concentrate

For use on Hydrocarbon fires Low Expansion - Gentle application

Composition

The foam liquid **PROTAL-P** is composed of a mixture of hydrolysed proteins, stabilising salts and corrosion inhibitors, enabling creation of a stable foam blanket characterised by a very high burnback resistance.

Principle of Operation

The solution obtained from **PROTAL-P** foam concentrate is very efficient in extinction of petroleum fires, when used in gentle or indirect application, even in contact with overheated metal sheet structures, thanks to the tough and stable foam blanket it produces.

Induction Ratio

PROTAL-P is available in two standard versions:

- 6 % (6 L foam concentrate + 94 L water = 100 L foam solution)
- 3 % (3 L foam concentrate + 97 L water = 100 L foam solution)

Method of Application

The regular protein foam concentrate **PROTAL-P** is recommended for use with fixed installations in gentle, indirect application. Its best use is protection of fuel storage tanks through foam chambers and pourers.

Field of Application

PROTAL-P is mainly used for protection against fire of:

- refineries
- hydrocarbon storage tank farms

General Characteristics

PROTAL-P is in conformity with all national and international standards and particularly with European standard EN 1568-3.

It can be used with fresh and sea water.

PROTAL-P properties do not change in case of frost. It recovers its initial properties as soon as it is defrosted.

Storage

PROTAL-P has a long shelf life if stored correctly. We advise to store the product sealed in its original container, away from important temperature variations and corrosive atmospheres.

Physico -Chemical Characteristics

foam concentrate	u.m.	3 & 6 %
density @ 20°C	kg/l	1.13 - 1.16
pH @ 20°C		6 - 7.5
viscosity @ 20°C	mm ² /s	20
pour point *	°C	- 15
undissolved solids	% V/V	0.2

Typical Foam Properties

The foam properties of **PROTAL-P** vary depending on the performance characteristics of foam equipment used and the operating conditions.

PROTAL-P tested in accordance with the EN 1568:3 gives the following typical properties:

foam solution %	3%	6%
Expansion Ratio	6	7
25% drainage time	4'	5'