

VABERDEEN FOAM VAPOUR SHIELD (ALKALI)

VAPOUR SUPPRESSING AQUEOUS FOAM CONCENTRATE



A high quality, fluorine free foam concentrate which quickly controls hazardous alkali spill vapour release to protect on-site emergency crews and minimise environmental damage.

Designed to provide an effective and stable vapour suppressing foam blanket on alkali spills when used at 6% concentration.

- Increases evacuation time
- Reduces evacuation area required
- Allows time for initiation of clean up operation
- Resists chemical pick up
- Formulated for use with either fresh or seawater

HOW IT WORKS

Many chemicals can destroy foam by combining with the surfactants used in its formulation, changing its pH or removing water by reaction or dissolution. Vapour Shield (Alkali) has been specially formulated to work effectively with alkalis without out any adverse reaction.

When used at a concentration of 6%, Vapour Shield (Alkali) provides a stable, slow draining foam to effectively suppress vapours from accidental alkali chemical spills.

APPLICATIONS

Aberdeen Foam Vapour Shield (Alkali) concentrate provides quality protection wherever alkali spills are a risk:

- Road tankers and rail cars
- Chemical storage facilities
- Industrial processing areas

Effective on hazardous alkaline material such as:

- Anhydrous ammonia
- All alkyl amines
- Hydrazine
- Sodium hypochlorite

NOTE

Vapour Shield (Alkali) is also suitable for use as a wetting agent for combating Class A fires, ie tyres, paper and wood. It should not be used for Class B hydrocarbon fire extinguishment.

**FLOURINE
FREE**

VAPOUR SHIELD (ALKALI)

PHYSICAL PROPERTIES

Appearance	Clear bright colourless liquid
Specific gravity	1.01 - 1.03
pH at 20°C	7.0 - 8.5
Viscosity @ 20°C mPas	<30
Surface tension @ 20°C N/m	TBC
Freezing point (°C)	<-15
Lowest use temp. (°C)	0
Expansion*	≥ 6.0
25% drainage (at 3%)	≥ 8.0
Max. storage temp.(°C)	40
Min. storage temp.(°C)	-10
Freeze/thaw effect	None

* Foam quality will depend on the foam equipment used and the operating conditions. The above are tested in accordance with UK Defence Standard 42-40 Low Expansion branch.

FOAMING PROPERTIES

Foam expansion properties will vary depending on several factors including:

- Using salt or fresh water
- Water hardness
- Equipment characteristics
- Equipment flow rate

For example, aspirating devices will produce typical expansion ratios of between 6:1 and 10:1 and non-aspirating devices between 2:1 and 4:1.

Always check your equipment's operation manual for guidance.

ENVIRONMENTAL IMPACT

- Biodegradable - meets requirements of EC648/2004
- Water based
- Fluorine free
- Not classified as hazardous to the environment

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MINIMUM FOAM BLANKET THICKNESS

Ideally 300mm at 50:1 expansion.

PROPORTIONING EQUIPMENT

Aberdeen Foam Vapour Shield (Alkali) concentrate should only be applied using a medium expansion nozzle working at 6% concentration.

DISCHARGE EQUIPMENT

Apply only with a medium expansion nozzle.

PROPORTIONING INFORMATION

Vapour suppression:

- 6 parts foam concentrate to 94 parts water

STORAGE AND SHELF LIFE

Best stored as supplied in original, unopened containers. Suitable for storage in containers and tanks manufactured from:

- Stainless steel (Type 304L or 316L)
- High density cross-linked polyethylene
- RFP – vinyl ester epoxy resin only

If kept in the original manufacturer's supplied container and stored between 0°C and 49°C, a shelf life of at least 10 years can be expected.

To prolong the shelf life of any AFFF, do not expose to temperature extremes and prevent contamination from foreign materials.

COMPATIBILITY

Never mix with any other foam type. If foam concentrates are mixed, vapor suppression performance properties will be affected and the mixture must be discarded.

For further information or advice on compatibility testing, please contact Oil Technics Limited.

DISPOSAL

Produced Aberdeen Foam Vapour Shield (Alkali) can be safely disposed of in biological waste water treatment systems.

INSPECTION AND TESTING

As recommended by NFPA11, BS:EN 13565-2:2009 and BS 5306, Aberdeen Foam foam concentrates should be inspected and tested at least annually as part of your foam maintenance programme.

Oil Technics Limited offers a worldwide foam testing service and inhouse foam testing training. For further details, please contact us or visit our website: www.foamtesting.com

TECHNICAL SERVICES AND SALES SUPPORT

For our UK customers, Aberdeen Foam is available 24/7 via our 24 hour emergency call out service: +44 (0) 1561 361515

Aberdeen Foam is manufactured in Scotland under ISO 9001 and ISO 14001 accredited management systems and audited by UL every four months.

PACK SIZES

Available in the following sizes:

20 litre, 25 litre, 200 litre, 1000 litre containers and bulk tanks

Oil Technics Ltd reserve the right to modify any specification at any time and without prior notice.



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