

METEOR T -10 High Expansion 3% Foam Concentrate

Features

- 3% High Expansion Concentrate on Hydrocarbons
- EN1568:2008 and IMO Msc 670 approved
- For use on Hydrocarbons liquids
- Freeze protected to -10°C
- Suitable for use with fresh and salt water
- Supplied ready to use in 20, 25, 200 or 1000 litres packaging

Description

METEOR T -10 High Expansion Foam Concentrate is a synthetic based formulation comprised of hydrocarbon surfactants, solvents, and stabilizers for use with low, medium and high-expansion foam generators.

METEOR T -10 High Expansion Foam Concentrate can be used to produce foam with expansion ratios ranging from 50:1 to 1000:1 depending upon the type of generator and its operating pressure. When used with high expansion generators, recommended proportioning is at 3% (3 Litre METEOR T -10 concentrate with 97 litres of water).

Performance

METEOR T -10 is measured against the latest specifications of the European Standard EN1568 : 2008 edition and marine IMO standard MSC/Circ. 670. Testing on both standards have allowed rigorous testing with both fresh and salt water to meet the required performances.

The performance of METEOR T-10 foam concentrate when used at high expansion will vary depending upon the performance characteristics of the equipment. Expansion ratios through high expansion generators typically are between 200:1 and 1000:1. For this reason, it is important for the proper design of a high expansion system that the METEOR T-10 foam concentrate be specifically tested with the foam generators.

Medium expansion foam generators typically deliver expansion ratios between 50:1 and 200:1.

Application

METEOR T -10 can be proportioned easily at the correct dilution using all conventional dosing equipment such as:

- PP, PPW pressure pump proportioning equipment
- MTB Bladder tank and related TP proportioners
- Fixed In-line venturi type like MI inductor
- Around the pump type like PI proportioners



METEOR T -10 High Expansion Foam Concentrate is a tremendously flexible firefighting agent, used in fighting Class A, Class B, and LNG fires both indoors and outdoors. It is used only with air aspirating foam discharge devices except when used as a wetting agent on Class A fuels.

METEOR T -10 High Expansion Foam Concentrate, when used with high expansion generators, is capable of totally flooding large rooms and enclosures allowing it to effectively extinguish horizontal and vertical (three-dimensional) fires. High expansion foam is also effective in reducing vapour concentrations downwind from un-ignited LNG and other hazardous low boiling point gaseous products such as ammonia spills.

When used with medium expansion foam equipment, METEOR T-10 forms a foam blanket which prevents the release of fuel vapour and also provides additional cooling due to the higher water content. Medium expansion foam has benefits in outdoor applications because the foam is less affected by wind conditions.

METEOR T -10 is ideal for fixed high expansion systems such as warehouse total flooding protection, pump rooms, LNG pits, Fire Brigades daily applications, and aircraft hangars.

The foam produced by METEOR T -10 extinguishes hydrocarbon fires best when applied using gentle application.

Approvals

The fire performance of METEOR T -10 is measured and listed according to:

- EN1568: 2008 Part 1 and 2
- IMO MSC Circ. 670 & MED
- MED B
- GOST-R (Russia)



Storage and Shelf Life

METEOR T -10 has an operational temperature range of -8°C and +60°C. When stored in the packaging supplied (polyethylene drums or cans) or in equipment recommended by the manufacturer as part of the foam system and within the temperature limits specified, the shelf life of METEOR T -10 Concentrate is about 20-25 years.

The factors affecting shelf life and stability for SKUM foam agents are discussed in detail in our Technical Bulletin 11A for storage recommendation.

If the product is frozen during storage or transportation, thawing will render the product completely usable. Mixing after freeze thaw cycling is recommended.

Safety and Handling

See our corresponding "Material Safety data sheet".

Eco-Toxicology and Disposal

METEOR T -10 is environmentally safe and rapidly biodegradable. METEOR T -10 does not contain any fluorosurfactant and is therefore considered to be a fluorine free foam.

Compatibility

There are no specifications or standards which address the subject of compatibility of different manufacturers' brands of multiple expansion foam concentrates. In an emergency or if the manufacturer has supporting test data to substantiate that the mixture meets the same requirements as the individual component concentrates, they may be mixed together in the same storage vessel.

Different types of foam concentrates, i.e. multiple expansion and protein base, should not be mixed under any circumstances.

Refer to SKUM Technical Bulletin No.13A addressing acceptable materials of construction. For more information, please email info@skum.com

Quality Assurance

METEOR T-10 - as with all Tyco Products is subject to very stringent quality controls throughout all stages of production, from incoming raw to the complete product and is manufactured in an ISO 9001:2008 controlled facility.

Inspection

As with any fire extinguishing agent, METEOR T -10 should be inspected periodically. NFPA 11 or EN 13565-2 requires that foam concentrate samples be submitted to the manufacturer or other qualified laboratory for quality condition testing at least annually. Contact us for further information on annual inspection.

Typical Properties at 20°C

■ METEOR T-10	HI-EX 3%		
■ Fire Classes	A and B		
■ Shape and colour	Clear liquid, brown		
■ Smell	Characteristic, surfactant-alike		
■ Density (20°C)	1.06 ±0.02 [g/ml]		
■ pH (concentrate, 20°C)	7.0 ±1.0		
■ Viscosity 20°C	7.0 ±2.0 [mm ² /s]		
■ Sediment (EN-1568 / IMO)	≤ 0,1 [%]		
■ Admixing ratio	3 [% Vol.]		
■ Expansion	Medium Exp	High Exp	Low Exp
■ Expansion standard	EN-1568:1	EN-1568:2 IMO 670	EN-1568:3 IMO 1312
■ Expansion Ratio	≥ 120:1	≥ 800:1	≥ 9:1
■ Drain Time 25% (20°C) [min:s]	≥ 10:00	≥ 10:00	≥ 8:00
■ Drain Time 50% (20°C) [min:s]	NA	NA	≥ 15:00
■ Freezing Point	≤ -13 [°C]		
■ Pour Point	≤ -10 [°C]		
■ Recommended storage/ Usage temperature	-8 to +60 [°C]		

Ordering Information

METEOR T -10 can be supplied in cans, drums, totes or Bulk (contact us for Bulk delivery details).

<u>Part No.</u>	<u>Description</u>
■ F203163C2	20 Litre can
■ F203163C3	20 Litre DIN can
■ F203163C1	25 Litre can
■ F203163D1	200 Litre drum
■ F203163T1	1000 Litre tote
■ F203163B1	Bulk

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