

Features

Foam mimic concentrate
Non-foaming
Environmentally friendly
Measure induction ratio

Description

EnviroSense 10 is an environmentally friendly foam mimic concentrate with non-foaming properties. It is designed to be used when testing and commission foam systems. The foam mimic concentrate has been designed to have similar flow behaviour as traditional foam concentrate but has no foaming agents inside.

The foam mimic concentrate can also be used to determine induction ratio as measured by conductivity. The same foam mimic concentrate can be used for 1%, 3% and 6% systems. The lower detection limit is around 0,2% induction using ordinary tap water.

The viscosity of EnviroSense 10 is set to be around 10 mPas. This mimics a typical AFFF foam concentrate with low viscosity. The viscosity is approximate and can vary from batch to batch. Since viscosity also changes by temperature it is advisable to always measure the viscosity of the foam mimic solution before use.

Application

Use the foam mimic solution instead of an ordinary foam concentrate to set-up and trim a foam system to the right induction ratio. The foam mimic solution is non-foaming and, hence, easy to handle after use. The foam mimic solution is fully biodegradable.

The foam mimic solution can be used for 1% to 6% systems to check induction ratio by conductivity.

Technical data

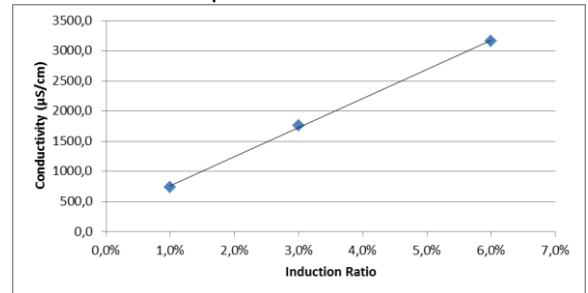
Appearance	Clear yellowish liquid
Specific gravity at 20°C	1,03 +/- 0,01 g/ml
Viscosity at 20°C	≤ 10 mPas
pH	6,5 – 8,5
Freezing point	-0°C
Recommended storage temperature	-0 - 55°C
Suspended sediment (v/v)	Less than 0,2%

Compatibility

Contact one of the Fomtec sales team with questions.

Induction Ratio

The foam mimic solution can be used to measure induction ratio over a wide range of mixing ratios. The figure below shows the conductivity and a calibration curve for 1%, 3% and 6% solutions in tap water.



Linear regression of the above curve gives a R-value of 0,9995 which is almost identical to a straight line for which the R-value is 1,000. If the linear regression gives a R-value below 0,9800 it is advisable to do new calibration solutions. The lower mixing ratio limit in this case is about 0,2%. By using brackish or sea water the resolution will decrease. This has to be checked from case to case. By measuring the conductivity of premix solution coming out from a system when released the induction ratio can be calculated by using the above calibration curve. The good R-value will give good precision in the measurement.

Disposal of premix solution

EnviroSense 10 has been designed with ingredients suitable for discharge in sewers and drains as a premix from a system testing. The disposal in sewers and drains need to be checked with local authorities to obtain a permission for this before it is done. A special MSDS is available for a 6% premix solution of EnviroSense 10 to present for authorities that represents a worst case scenario of the premix solution.

Storage / Shelf life

Stored in original unbroken packaging the product will have a long shelf life, at least 2 years in temperate climates. As with all foams, shelf life will be dependent on storage temperatures and conditions. If the product is frozen during storage or transport, thawing will render the product completely usable.

We recommend following our guidelines for storage and handling ensuring favourable storage conditions.

Packaging

We supply this product in 25 litre cans and 200 litre drums. We can also ship in 1000 litre containers or in bulk.

Litres per piece	Packaging	Part no
25 litres	Can	14-9001-01
200 litres	Drum	14-9001-02
1000 litres	Container	14-9001-04
Bulk	Special request	