



**Dr. STHAMER HAMBURG**



# AVIATION FOAM CONCENTRATES

## ICAO Level B & Level C

The featured foam concentrates comply with special demands on fire extinguishing additives for use at civil airports, airfields and hangar sites, as well as helidecks at hospital sites, off-shore oil rigs and wind farms.

All fire extinguishing foam concentrates are certified by independent, accredited testing laboratories in accordance with ICAO<sup>1</sup> regulations and DIN EN-1568:2008.



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<sup>1</sup> International Civil Aviation Organization



## STHAMEX®-AFFF ICAO C 3% F-15

is our aqueous film forming foam concentrate, certified in accordance with annexe 14, ICAO level C. Its outstanding fire performance and excellent burn-back resistance exceeds ICAO level C requirements. It is suitable for use at large, category 8, 9 and 10 civil airports with increased risks from large aircrafts, as well as smaller airfields to maximise the use of limited foam stocks. The foam concentrate

is admixed at 3% with all standard proportioning equipment or systems, and applied preferably as low expansion foam or non-aspirated foam solution. It is suitable for use in combination with foam compatible dry chemical powder. The aqueous film provides for a high level of burnback safety during rescue operations.

## STHAMEX®-AFFF PREMIUM 3% F-15

is our cost efficient foam concentrate for airports, certified in accordance with annexe 14, ICAO level B. The aqueous film provides for fast extinction of fuel leakages. It swiftly forms a gastight cover over spilled fuel. The foam concentrate is admixed at 3% with all standard proportioning equipment or systems, and applied preferably as

low expansion foam or non-aspirated foam solution. It is suitable for use in combination with foam compatible dry chemical powder. STHAMEX®-AFFF 3% F-15 PREMIUM is certified in accordance with DIN EN 1568, ICAO, UL/ULC and LASTfire.

Products	STHAMEX®-AFFF ICAO C 3% F-15	STHAMEX®-AFFF PREMIUM 3% F-15
Induction rate non polar fuels	3 %	3 %
Type of foam	low expansion foam	low expansion foam
Frost resistance	-15 °C	-15 °C
Annex 14 ICAO	level C	level B
Certificate of conformity	ICAO*	EN 1568-3; ICAO; UL/ULC; LASTfire
Environmental acceptability	STHAMEX®-AFFF is physiologically harmless and very readily biodegradable. Fluorine components are not fully biodegradable.	

\*Certification EN 1568-3 pending

## vaPUREx® LV ICAO B 3% F-10

Is a 100% biodegradable fire extinguishing foam concentrate designed for direct foam application on aviation fuels. It is type tested and certified in accordance with Annex 14 ICAO Level B. As vaPUREx® LV is a low-viscosity, newtonian liquid it can be used with all customary mobile and fixed proportioners up to its lowest usable temperature of -10°C. A sophisticated blend of active materials very effectively prevents the foam from forming emulsions with the fuel despite the absence of fluorinated chemicals. This facilitates effective vapour suppression and thus a fast fire fighting success.



Product	vaPUREx® LV ICAO B
Induction rate	3 %
Type of foam	low expansion foam, medium expansion foam
Frost resistance	-10° C
Annex 14 ICAO	level B
Certificate of conformity	EN 1568 Parts 1 & 3, ICAO
Environmental acceptability	Physiologically harmless and 100% biodegradable

## MOUSSOL®-FF 3/6 Plus

Is a fluorine-free, 100% biodegradable, synthetic foam fire extinguishing concentrate, certified in accordance with annexe 14, ICAO level B. Polymer film forming components provide for high burn-back resistance of the foam at high temperatures. When used on alcohols, these components form a separating layer which provides for alcohol resistance of the foam. MOUSSOL®-FF 3/6 Plus foam is applied as low-expansion foam with an expansion factor of ≥ 5 or as medium expansion foam. CAFS application produced excellent fire extinguishing times. Where possible, pump supported induction of this pseudo-plastic product should be applied. Due to its complete bio-degradability, MOUSSOL®-FF 3/6 Plus is also used for training and fighting of class A fires.



Product	MOUSSOL®-FF 3/6 Plus
Induction rate Aviation fuel	3 %
Alcohol	3%-6%
Fire training	1%-3%
Type of foam	low expansion foam, medium expansion foam, high expansion foam
Frost resistance	-15 °C
Annex 14 ICAO	level B
Certificate of conformity	EN 1568, ICAO
Environmental acceptability	Physiologically harmless and 100% biodegradable

**Note:** MOUSSOL®-FF Plus is a newly formulated product. Its viscosity and composition differ from MOUSSOL®-FF. Mixing of the two products in vehicle tanks is not recommended.





## **MOUSSEAL®-CF F-30**

is a ready-to-use solution based on an aqueous film forming foam agent. The product is used in self contained fire extinguishing systems in areas at risk of freezing, such as Poly-fire extinguishing systems and CAFS on helidecks at hospital sites, offshore oil rigs, wind farms, mobile fire extinguishing appliances and equipment at airports and on service vehicles, as well as wet stationary systems in hangars or at jet engine test rigs. MOUSSEAL®-CF F-30 is frost resistant up to -30°C. Apart from the certification according to ICAO annexe 14, level B, it achieved a DIN EN3 rating of 183B.

Further ICAO type certified products on request.



***Emergency service  
around the clock!***

Our 24 hour emergency service ensures fast delivery in an emergency. If you run low on foam in an emergency, or are in need of urgent replenishment, please call:

**+49 (0)40 / 73 61 68-0**



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