



**Dr. STHAMER HAMBURG**

# SCHAUM GEGEN FEUER

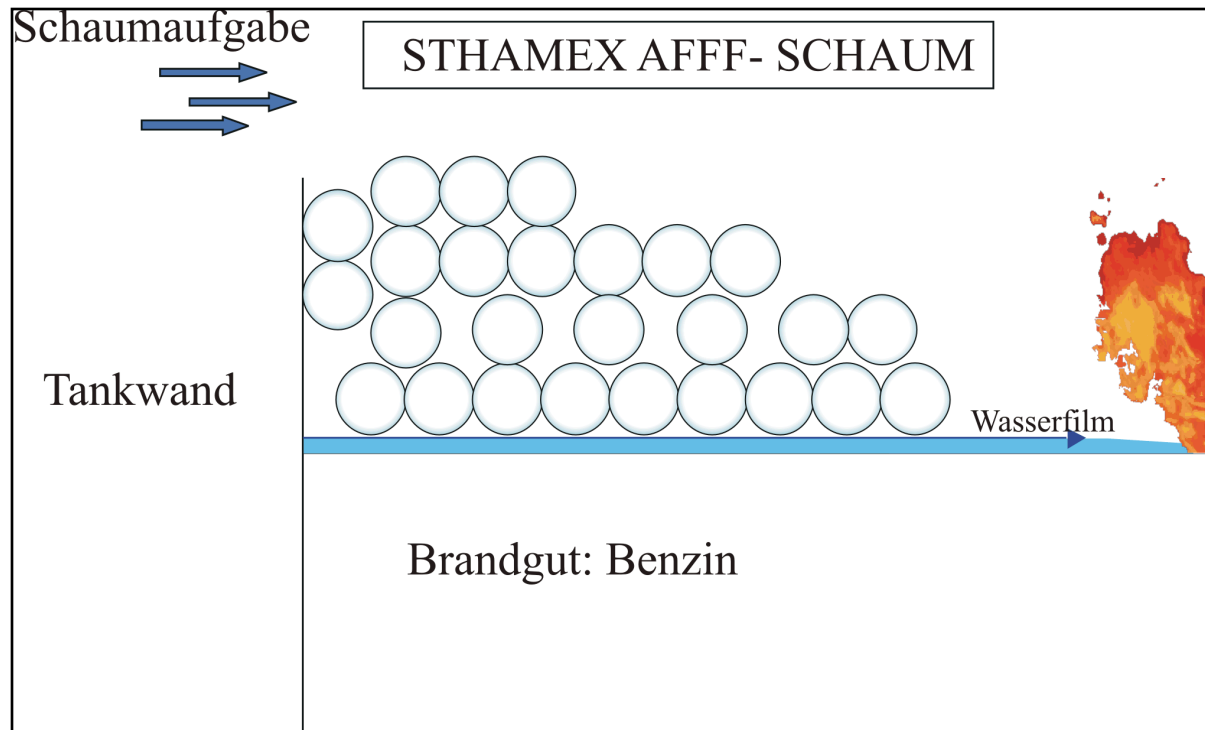
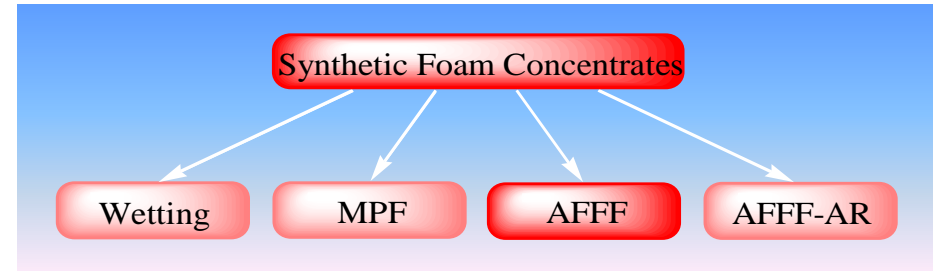
## ***FOAM fights FIRE***

***CTIF Conference Arlanda June 2013***

***Presented by Jan Knappert – International Sales Director***

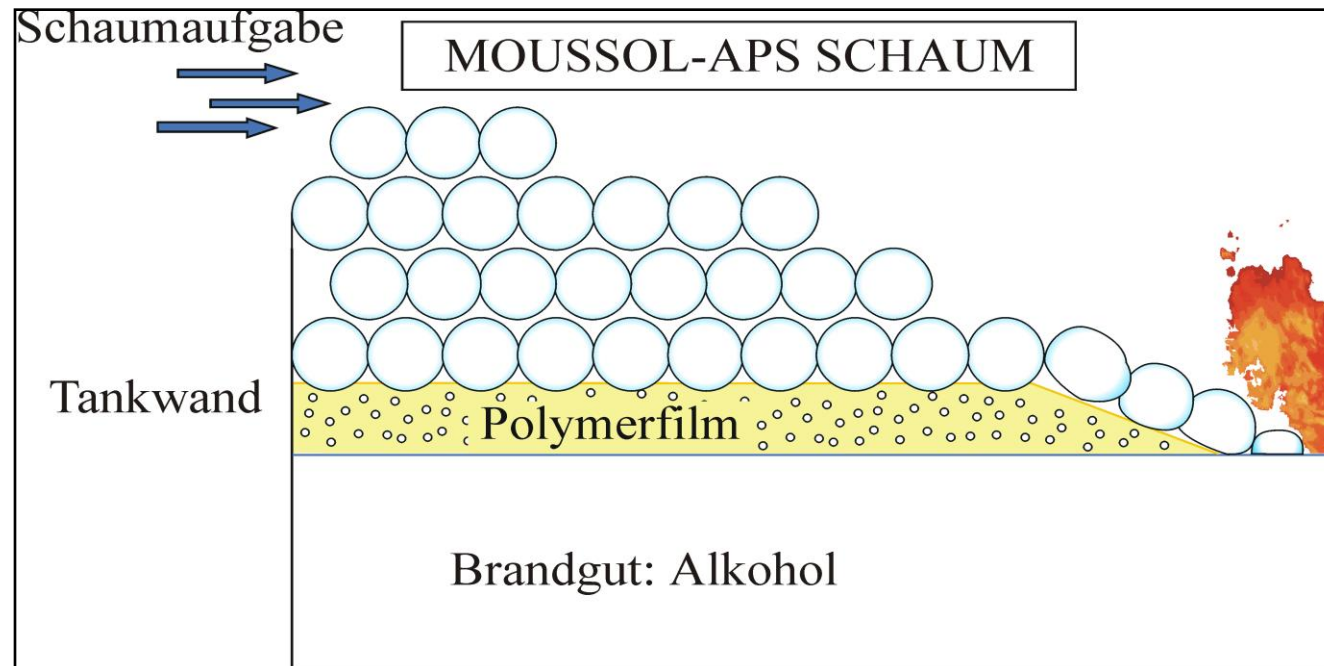
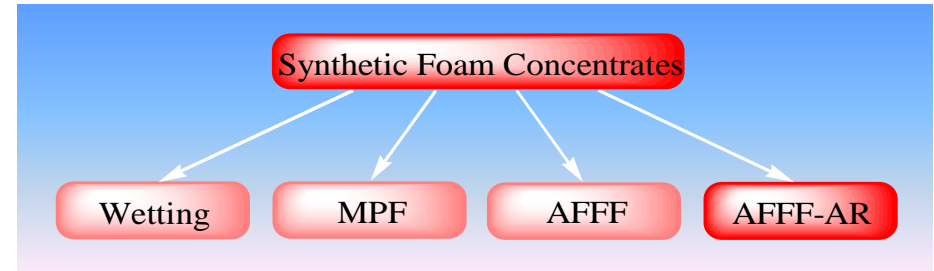
Founded	1886
By	Dr. Richard Stamer
Foam production	since beginning of the 1930s
Staff	42
Product Trade Names	FOAMOUSSE STHAMEX STHAMEX-AFFF MOUSSOL MOUSSEAL FETTEX WETTING AGENTS
Certification	DIN EN ISO 9001:2000

Aqueous film runs in front of the foam  
→ fast foam spreading



- Stable barrier against vapor
- good burnback
- direct application
- low fuel pick-up

- On polar fires
  - Formation of a gel-like protective layer between solvent and foam



two important factors:

- good foam expansion
- gentle foam application

# **Moussol FF Alcohol Resistant Fluorine Free Foams**

# Moussol FF has ICAO Level B Certification Tested and certified by MPA Dresden

Beachtlich anerkannte Prüf-, Überwachungs- und Zertifizierungsstelle  
Anerkennung Protokolle für Feuerlöscher und -geräte  
DIN EN 15004:11025, SAPH-F, 1107:06, DIN EN 45011:1, SAPH-ZE-046:03  
DIN EN 17025, SAPH-03-047:03  
21.5-F-021/02, 21.5-ZE-014/02  
Notfall-Notruf: 0371  
Mitglied des VMPA e.V.

## ZERTIFIKAT CERTIFICATE

Prüfung des Schaummittels nach ICAO Airport Service Manual, Teil 1, Anh. SE : 2004-5  
Test of foam concentrate in accordance with ICAO Airport Service Manual, Part 1, Appendix SE : 2004-5

Zertifikat Nr.: 2009-F-2530/0h 79  
Certificate no.:

Antragsteller / Hersteller: Fabrik chemischer Präparate von  
Dr. Richard Stamer GmbH & Co. KG  
Leibnizstraße 5  
22113 Hamburg

Typbezeichnung des Produktes: MOUSSOL FF 3/6  
Designation of the product:

Prüflaboratorium: MPA Dresden GmbH  
Test laboratory:  
Anerk. anerkannte Prüfstelle für Feuerlöscher und -geräte  
Official Laboratory for the extinguishing media and its equipment  
Fuchsmühlweg 6F  
09109 Freiberg, DEUTSCHLAND / GERMANY

Die Konformität des geprüften Schaummittels, Bezeichnung MOUSSOL-FF 3/6, mit den Anforderungen des Anhangs SE des ICAO Airport Service Manual wird bestätigt.  
Leistungsklasse: Typ B nach Tabelle SE.1  
This is to certify conformity of the tested foam concentrate, designation MOUSSOL-FF 3/6, with the requirements of appendix SE of ICAO Airport Service Manual.  
Performance level: Type B according to table SE.1

Freiberg, 2009-08-05

  
Dipl.-Ing. Christian  
Leiter der Prüfstelle  
Laboratory Manager



  
Dipl.-Ing. Walter  
Beauf.   
Official

Dieses Zertifikat besteht aus 2 Seiten, Übersetzung siehe Seite 2.  
This certificate comprises 2 pages. Test results see page 2.

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BLZ: 870 244 00

USt-IdNr.: DE234220089  
IBAN DE88 8702 3000 3115 0048 70  
BIC: WELADED3330

# **ICAO Level C to be adopted July 13th 2013**

**The main reason was to increase the effectiveness of the fire fighting foam and reduce the volumes to be carried on the ARFF vehicles**

## ICAO Fire test

	<u>Level A</u>	<u>Level B</u>	<u>Level C</u>
Nozzle pipe	UNI 86	UNI 86	UNI 86
Nozzle pressure	700 kPa	700 kPa	700 kPa
Discharge rate	11,4 L/min	11,4 L/min	L/min
Pan Fire size	2,8 m <sup>2</sup>	4,5 m <sup>2</sup>	7.32 m <sup>2</sup>
Application rate	4,1 L/min/m <sup>2</sup>	2,5 L/min/m <sup>2</sup>	1.75 L/min/m <sup>2</sup>
Fuel	—— Kerosene Avtur (Jet A1) ——		
Fuel volume	60 L	100 L	157 L
Preburn time	60 s	60 s	60 s
Extinguishing time	< 60 s	< 60 s	< 60 s
Application time	120 s	120 s	120 s
25% re-ignition time	> 5 min	> 5 min	> 5 min



SWEDAVIA selects Moussol FF Fluorine Free  
Foam for all Swedish Airports

Finavia selects Moussol FF Fluorine Free Foam  
for all Finnish Airports and

Sthamex AFFF3% F-15 ICAO Level C for  
Helsinki Vantaa, Varkaus & Marianhamina  
Airports

Frankfurt Airport now has Sthamex AFFF3% F-15  
ICAO Level C

## **Breaking News**

**Moussol FF Fluorine Free Foam  
Used successfully on BA Engine Fire  
Emergency at Heathrow Airport  
May 2013**

Thank you for your attention