OILTECHNICS
FIRE FIGHTING
PRODUCTS

FIRE FIGHTING FOAM TEST REPORT

IMPORTANT - REPORTS ATTACHED

FOR THE ATTENTION OF:

CONTACT:	Mr. A. Person	POSITION:	Technical Supervisor
COMPANY:	Acme Ltd.	LOCATION:	Site 1
		DATE:	24th March 2022

Number of pages (including this sheet): 3

Please find enclosed our Test Report 12345 relating to your Fire Fighting Foam Concentrate samples received on the 20th March 2022.

We would like to draw your attention to the comments made in the area of the test report marked **"conclusion"**.

Please note: the results of this analysis are solely representative of the sample(s) submitted to our Laboratory.

Thank you for placing your Foam Testing requirements with our Laboratory. Should you require any further information, please do give me a call on +44 (0) 1561 361515.

Yours sincerely

Susan Thomas

Susan Thomas
Foam Testing Laboratory, Oil Technics (Fire Fighting Products) Ltd

PS: We will retain your Foam Samples for a period of 3 months before disposal unless we hear from you.

If you have any queries regarding this report, please contact the Foam Test Laboratory:
Tel: +44 (0) 1561 360640 **Email:** susan@foamtesting.com **Web:** www.foamtesting.com

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FOAM CONCENTRATE

CUSTOMER:	Acme Ltd.	CUSTOMER REF. NO.:	54321
LOCATION:	Site 1	SAMPLE POINT:	Tank 1
FOAM TYPE:	3% AFFF-LF		
LABORATORY REF. NO.	12345 A	DATE:	24th March 2022

TEST RESULTS

TEST DESCRIPTION		RESULT
APPEARANCE (VISUAL)		Clear straw liquid
SPECIFIC GRAVITY @ 20˚C		1.033
pH @ 20˚C	BS EN 1568 1-4: 2018 Part 7	7.60
SURFACE TENSION @ 20˚C (mN/m)	ASTM D-971: 2012; ISO 304: 1985	0.0200 @ 1% working solution
SEDIMENT (% v/v)		None
VISCOSITY @ 20˚C (mPa.s.)		3.96 @ 30rpm
FREEZE POINT (˚C)		< -20
1/4 DRAINAGE TIME	BS EN 1568 1-4: 2018 Annex G, NFPA 11: 2021 Annex D	2 minutes 44 seconds
EXPANSION RATIO	BS EN 1568 1-4: 2018 Annex G, NFPA 11: 2021 Annex D	6.45
FIRE EXTINGUISHMENT PERFORMANCE (SMALL SCALE TEST)		SATISFACTORY

CONCLUSION

The submitted sample was tested and found to be in a satisfactory condition.

Please note this result is only our opinion and has been reached without sight of your foam supplier's sales sheet.

It is strongly recommended that these results are compared with the physical properties listed on your foam supplier's sales sheets - if you require any assistance, please do call our Foam Test Laboratory.

Susan Thomas, Foam Testing Laboratory

Tel: +44 (0) 1561 360640 **Email:** susan@foamtesting.com

Oil Technics (Fire Fighting Products) **Ltd.**
Linton Business Park, Gourdon, Aberdeenshire, Scotland UK DD10 0NH
T: +44 (0) 1561 361515 F: +44 (0) 1561 361001
E: info@foamtesting.com W: www.foamtesting.com

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FOAM CONCENTRATE TEST REPORT GLOSSARY

A quick guide to the different tests and why they are important.

The features listed below are tested as part of your Foam Concentrate Test Report.

We strongly recommend that these results are compared with the original manufacturer's specifications. If they do not match, it can indicate any of the following issues:

> contamination > evaporation > dilution > degradation > decomposition

If you require any assistance, please do not hesitate to call our Foam Test Laboratory.

TEST DESCRIPTION	WHAT IS THIS?
APPEARANCE	How the foam concentrate sample looks – checking for colour, visible sediment and homogeneity.
SPECIFIC GRAVITY	The ratio of a given value of liquid compared to the weight of an equal volume of water.
pH	The alkalinity or acidity of the foam concentrate sample.
SURFACE TENSION	An indication of how well the foam will spread across the surface of a fire in use.
SEDIMENT	The measure of insoluble or particulate matter in the foam concentrate sample.
VISCOSITY	The thickness of the foam concentrate sample in comparison with water.
FREEZE POINT	The temperature at which the foam concentrate sample changes from a liquid to a solid phase (crystallises).
1/4 DRAINAGE	The speed at which water drains from the foam; also known as the 25% drainage test. Test done using a UK Defence Std. branchpipe, application rate of 5 Litres per minutes at 5.5 bar (AFFF foams) or 7.0 bar (AR & Protein foams). This is a critical indication of a foam's stability.
EXPANSION	The ratio of foam produced compared with the volume of concentrate used, eg a ratio of 7: 1 means 1 Litre of foam concentrate produces 7 Litres of foam. Test done using a UK Defence Std. branchpipe.
FIRE EXTINGUISHMENT	An indicative test of the foam's performance in extinguishing fires using a small scale test pan.

Note: the results obtained are based entirely on the samples sent which may or may not be representative.

WHAT SAMPLES ARE REQUIRED?

For each Foam Concentrate Test Report, we require: > **1 litre of foam concentrate**

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