

Project: Fire Extinguishing Media
(EN 615)

Certificate Number: MCH 0132934/03

Client: Dafo Fomtec AB
P.O. Box 683
135 26 Tysesö, Sweden

Office: Liverpool

Client's Order Number: 102416RG

Date: 20 June 2001

Order Status: Complete

Inspection Dates

First: 6 June 2001

Final: 20 June 2001

This certificate is issued to Dafo Fomtec AB, to certify that at their request the undersigned Surveyor to this Society did select samples of a powder known as RENEX ABC FORTE for the purpose of confirming that the properties were within the declared limits and were in accordance with EN 615, Fire Extinguishing Media - Specifications for Powders.

The necessary tests were witnessed by the Surveyor and the results obtained were all within the limits given in the manufacturers specification and the requirements of the EN 615.

Summary of Results

Composition: Fire extinguishing dry powder RENEX ABC FORTE, based on mono ammonium phosphate, together with ammonium sulphate and treated with flow promoting and moisture repellent additives.

Application: Suitable for Class A, B, and C fires.

Physiological Property: Non Toxic Powder.

	<u>Declared</u>	<u>Actual</u>
Bulk Density (g/ml)	0.95 ± 0.07	0.91
Sieve Analysis % > 40µm	45 ± 8	44.6
> 63µm	30 ± 8	29.7
>125µm	8 ± 5	9.3
Obtained by Alpine Air Jet Sieve		
Water Repellency (hr)	> 2.0	> 3.0
Moisture Content %	> 0.25	0.03%
Resistance to Caking & Lumping	Meets the requirements of Clause 10, Annex C.	

Chemical Content (%)

Flow Promoting & Water Repellent Additives	> 2.0	5.4%
Mono Ammonium Phosphate	88 ± 3	89.12%
Ammonium Sulphate	> 2.0	4.5%

Obtained by Gravimetric Analysis

Residual Mass After Discharge

6Kg Extinguishers were conditioned in accordance with EN 3-5:1996 clause 3 Annex A

Cycle No. 1 -20°C (24 hrs), 20°C (24hrs), + 60°(24hrs) : Residual Mass 4.12%

Cycle No. 2 +60°C (24hrs), 20°C (24hrs), - 20° (24hrs) : Residual Mass 5.97%

Duration and Residual Charge (EN 3-1 clause 6)

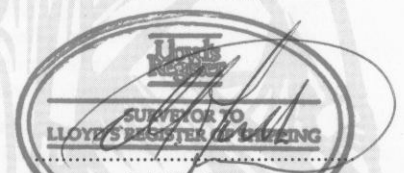
21.6 Seconds and 3.73%

Fire Test Performance

Fire tests in accordance with European standards EN3 Part 1, EN3 Part 4 (1996) using 6 kilo stored pressure extinguishers, were carried out with satisfactory results using Heptane as fuel on CEN trays, 233B (surface area: 7.32 M²). Discharge time average 20.4 seconds.

Class A fire tests were carried out with satisfactory results using 21A wood crib and same 6 kilo stored pressure extinguishers.

These satisfactory fire tests were accomplished with the first two extinguishers, and therefore the third extinguisher was not used.



M. Firth
Surveyor to Lloyds Register