

Project: Fire Extinguishing Media  
(EN 615:1995)

Certificate Number: LIV 602582/1A3

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

Office: Liverpool

Client's Order Number: K0204/A

Date: 04 June 2001

Order Status: Complete

*Inspection Dates*

First: 19/8/96

Final: 23/8/96

*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 Standard, for the purpose of confirming that the properties were within the declared limits and were in accordance with EN 615:1995, 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 EN 615:1995.

Summary of Results

Composition

Fire extinguishing dry powder RENEX ABC Standard, 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

	Declared	Actual
Bulk Density (g/ml)	0.87 ± 0.07	0.88
Sieve Analysis % >40µm	50 ± 8	47.9
>63µm	32 ± 8	30.5
>125µm	13 ± 5	10.6
Obtained by Alpine Air Jet Sieve		
Water Repellency(hr)	>1.0	2.0
Moisture Content%	<0.25	0.16
Resistance to Caking & lumping	Meets the requirements of Clause 10, Annex C.	

Chemical Content (%)

Flow Promoting & Water Repellent Additives	>2.0	7.6
Mono Ammonium Phosphate	30 ± 2	29.0
Ammonium Sulphate	>60.0	60.8

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 (24hrs), 20°C (24hrs), + 60°C (24hrs) : Residual Mass 2.7%

Cycle No. 2 +60°C (24hrs), 20°C (24hrs), -20°C (24hrs) : Residual Mass 4.9%

Duration of discharge (EN 3-1 Clause 6 Table 1)

Cycle No. 1 20.2 secs

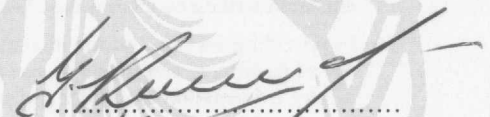
Cycle No. 2 20.6 secs

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, 144B (surface area:4.54 M<sup>2</sup>). Discharge time average 20 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.



D. G. Sutton  
Surveyor to Lloyd's Register