

Project: Fire Extinguishing Media
(EN 615:1995)

Certificate Number: MCH 9902010/1B

Client: Dafo Fomtec AB
PO Box 683, 135 26
Tyreso, Sweden

Office: Liverpool

Client's Order Number: K0812/A

Date: 11th April 2001

Order Status: Complete

Inspection Dates

First: 14.01.99

Final: 09.02.99

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 40, 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 EN 615.

Summary of Results

Composition: Fire extinguishing dry powder Renex ABC 40 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

Bulk Density (g/ml)	<u>Declared</u>	<u>Actual</u>
	0.90 ± 0.07	0.94

Sieve Analysis %>40µm	51 ± 8	53.8%
>63µm	35 ± 8	38.2%
>125µm	9 ± 5	9.1%

Obtained by Alpine Air Jet Sieve

Water Repellency (hr)	>1.0	>2 Hours
-----------------------	------	----------

Moisture Content%	<0.25	0.12%
-------------------	-------	-------

Resistance to Caking & lumping Meets the requirements of Clause 10, Annex C.

Chemical Content (%)

Flow promoting & Water Repellent Additives	>1.0	1.9
Mono Ammonium Phosphate	40 ± 2	40.2
Ammonium Sulphate	55 ± 2	53.1

Residual Mass After Discharge

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

Cycle No. 1 -30°C (24hrs), 20°C (24hrs), +60°C (24hrs): Residual Mass = 2.38%

Cycle No. 2+60°C (24hrs), 20°C (24hrs), -30°C (24hrs): Residual Mass = 7.17%

Duration of operation and residual charge (EN 3-1 Clause 6.1 and 6.2)

No. 1 : 18 Seconds, Residue = 9.6%

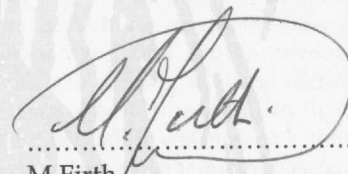
No.2 : 17 Seconds, Residue = 9.8%

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, 183B (surface area: 5.75M²)

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

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



M.Firth
Surveyor to Lloyd's Register