

### Contents

	Foreword
	Introduction
1	Scope
2	Normative references
3	Terms and definitions
4	Sampling
5	Characterization statement and requirements
5.1	General
5.2	Bulk density
5.3	Sieve analysis
5.4	Chemical content
5.5	Content of mono ammonium phosphate in Class ABC powders
5.6	Toxicity
6	Fire test performance
6.1	General
6.2	Class A
6.3	Class B
6.4	Class C
6.5	Class D
7	Fluidity testing
8	Resistance to caking and lumping
9	Water repellence
10	Moisture content
11	Electrical insulation value
12	Moisture absorbance
13	Test methods
13.1	Bulk density
13.1.1	Apparatus
13.1.2	Procedure
13.2	Sieve analysis
13.2.1	General
13.2.2	Method 1
13.2.2.1	Apparatus
13.2.2.2	Procedure
13.2.3	Method 2
13.2.3.1	Apparatus
13.2.3.2	Procedure
13.3	Performance methods for test fires
13.3.1	Rating suitability for the various classes of fire
13.3.1.1	Class A

13.3.1.2	Class B
13.3.1.3	Class D
13.4	Fluidity testing
13.4.1	Apparatus
13.4.2	Procedure
13.4.3	Result
13.5	Test for resistance to caking and lumping
13.5.1	Apparatus
13.5.2	Procedure
13.6	Water repellence test
13.6.1	Apparatus
13.6.2	Procedure
13.7	Test method for moisture content — Absorbance by sulfuric acid
13.7.1	Apparatus
13.7.2	Procedure
13.8	Electrical insulation test
13.8.1	Apparatus
13.8.2	Procedure
13.9	Moisture absorption testing
13.9.1	Apparatus
13.9.2	Procedure
13.10	Analysis for content of mono ammonium phosphate
13.10.1	Sample taking
13.10.2	Apparatus
13.10.3	Chemicals
13.10.4	Preparation of sample
13.10.5	Titration
13.10.6	Evaluation of the result

**Annex A (informative) Compatibility between extinguishing powders and foams**

A.1	General
A.2	Apparatus
A.2.1	Circular fire tray of brass
A.2.2	Burn-back pot of brass
A.2.3	Foam-making nozzle
A.2.4	Fuel
A.3	Test procedure
A.3.1	Test conditions
A.3.2	Set up
A.3.3	Fire test

**Annex B (informative) Suitability and equivalence of extinguishing powders in equipment**

**Annex C (informative) Sampling method**

**Annex D (informative) Moisture content testing — Vacuum drying**

D.1	Apparatus
D.2	Procedure
D.3	Results

**Annex E (informative) Alternate testing for mono ammonium phosphate content**

E.1	Apparatus
E.2	Chemicals
E.3	Preparation of sample
E.4	Titration
E.5	Evaluation of the result