

ICS 13.220.30

CCS C 84



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB 4066.2-2004

**Fire extinguishing media -- Part 2: ABC powder
(English Translation)**

Issued on: August 5, 2004

Implemented on: February 1, 2005

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China**

Table of Contents

Foreword...	3
1 Application Scope...	5
2 Normative References...	5
3 Terms and Definitions...	5
4 Requirements...	5
5 Test Methods...	6
6 Inspection Rules...	9
7 Marking, Packaging, Operating Instructions, Transportation and Storage	10

Foreword

Article 4 and Article 6 of this Part are compulsory; the others are voluntary.

GB 4066, Fire Extinguishing Media, is divided into two parts.

-- Part 1. BC Powder;

-- Part 2. ABC Powder.

This Part is Part 2 of GB 4066. This Part is nonequivalent to ISO 7202.1987, Fire Protection - Fire Extinguishing Media - Powder, and the major difference between them are as follows.

-- some modifications in formatting are made in accordance with the Chinese language codes;

-- some expressions applicable to international standards are changed into those applicable to Chinese standards;

-- the requirements for moisture content, moisture absorption and color are added;

-- the test methods for fire extinguishing performance are modified;

-- Annex A "Ammonium Dihydrogen Phosphate Content Test Method" and Annex B "Flowability Test Method" are added.

This Part replaces GB 15060-2002, Ammonium Phosphate Fire Extinguishing Powder.

In addition to the reference of ISO 7202-1987, this revision is made by referencing

United States Federal Specification O-D-1380B 1990.12 Ammonium Phosphate Fire Extinguishing Powder and the third part of Malaysian standard MS 1180 1990 Fire Extinguishing Media - Part 3 - Specification for Powder.

Compared with GB 15060-2002, the major changes of this Part are as follows.

- the requirements for color and discharge performance are added;
- the requirements for content, density and grain size distribution are modified;
- the test methods for moisture content and fire extinguishing performance are modified;
- the normative annex "Ammonium Dihydrogen Phosphate Content Test Method" is added (see Annex A);
- the informative annex "Flowability Test Method" is added (see Annex B).

From the date of implementation of this Part, GB 13532-1992 General Specifications Fire Extinguishing Media - Part 2. ABC Powder

1 Application Scope

This Part of GB 4066 specifies the definition, requirements, test methods, inspection rules, marking, packaging, transportation and storage of ABC fire extinguishing powder. This Part applies to fire extinguishing powders suitable for use against fires of classes A, B and C.

2 Normative References

The provisions in following documents become the provisions of this Part of GB 4066 through reference in this Part. For dated references, the subsequent amendments (excluding corrigendum) or revisions do not apply to this Part, however, parties who reach an agreement based on this Part are encouraged to study if the latest versions of these documents are applicable. For undated references, the latest edition of the referenced document applies.

GB 4066.1-2004, Fire Extinguishing Media - Part 1. BC Powder (ISO 7202.1987, NEQ)

GB/T 6682-1992, Water for Analytical Laboratory Use - Specification and Test

Methods (neq ISO 3696.1987)

3 Terms and Definitions

The following term and definition applies to this Part of GB 4066.

3.1

ABC fire extinguishing media - powder

fire extinguishing powders suitable for use against fires of classes A, B and C

4 Requirements

The main performance of ABC fire extinguishing powder shall be as specified in Table

1.

Table 1

Item Technical requirement

Carry out tests as specified in 5.4 of GB 4066.1-2004.

5.5 Resistance to caking and lumping

Carry out tests as specified in 5.5 of GB 4066.1-2004.

5.6 Water repellency

Carry out tests as specified in 5.6 of GB 4066.1-2004.

5.7 Grain size distribution

Carry out tests as specified in 5.7 of GB 4066.1-2004.

5.8 Resistance to extreme low temperature

Carry out tests as specified in 5.8 of GB 4066.1-2004.

5.9 Electrical insulation

Carry out tests as specified in 5.9 of GB 4066.1-2004.

5.10 Color

Place sample of fire extinguishing powder loosely in a container; observe the color of sample by visual inspection.

5.11.1 Method I (arbitration test)

Carry out tests as specified in 5.11.1 of GB 4066.1-2004.

5.11.2.1 Apparatus

- a) 8 kg stored pressure ABC powder fire extinguisher. as specified in GB 4351;
- b) vibration table. amplitude 3 mm and frequency (10 ~ 80) Hz;
- c) electrothermal blowing drying oven. accuracy $\pm 2^{\circ}\text{C}$;
- d) platform balance. accuracy 0.05 kg;
- e) stopwatch. division value 0.1 s.

5.11.2.2 Test procedure

Carry out tests as specified in 5.11.2.2 of GB 4066.1-2004.

- b) when there is any significant change such as in raw materials and process after normal production;
- c) during the periodical inspection at a two years' interval during normal production;
- d) when the production is resumed after a production halt of more than 1 year;
- e) when a national quality supervision body asks for type inspection.

6.2 Batch and lot

A batch is a single charge of material in the processing equipment that has been made homogeneous.

A lot contains one or more batches of products, manufactured to the same formulation by the same manufacturing process and under the same environmental conditions.

6.3.1 Samples for type inspection shall be taken from the qualified products by exit-

factory inspection. Before sampling, mix up products homogeneously; before the test for each item of performance, samples shall be mixed up.

6.3.2 When sampling a lot or a batch, samples of not less than 50 kg shall be taken

at random. The samples taken shall be stored in individual, clean, dry, airtight