

केन्द्रीय मुहर विभाग – III

हमारा संदर्भ- केन्द्रीय मुहर विभाग-III/16: IS 4308

31 जनवरी 2019

विषय: अनुपालन हेतु गाइडलाइन

सभी शाखा कार्यालय से आग्रह है कि गाइडलाइन का अनुपालन तत्काल प्रभाव से सुनिश्चित करें।

(एस डी राणे)
वैज्ञानिक 'ई' (सी एम डी-III)

प्रमुख (सी एम डी-III)

सभी क्षेत्रीय/शाखा कार्यालय

आई टी एस विभाग — बीआईएस इंटरनेट पर अपलोड करने हेतू

CENTRAL MARKS DEPARTMENT-III

Our Ref: CMD-III/16: IS 4308

31 January 2019

Subject: Guidelines for implementation of Revised IS 4308 : 2019 'Dry chemical powder for fire fighting – BC , ABC and D- Type'

This has reference to the subject mentioned above.

BOs may kindly ensure implementation of the guidelines with immediate effect.

(S D Rane)
Sc-E (CMD III)

Head (CMD - III)

Circulated to: All ROs/BOs

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CENTRAL MARKS DEPARTMENT III

Our Ref: CMD III/16: 4308

25 January 2019

Subject: Guidelines for implementation of Revised IS 4308 : 2019 'Dry Chemical Powders for Fire Fighting – BC , ABC and D Types' amalgamating IS 4308 : 2003, IS 4861 : 1984 and IS 14609 : 1999.

1. IS 4308 : 2003 on amalgamation with IS 4861 : 1984 and IS 14609 : 1999 has been revised as IS 4308 : 2019 and has been published. The last date for implementation of the revised Standard is **08 July 2019** after which the old Standard shall stand withdrawn.
2. All BOs shall inform the Applicants and Licensees under their jurisdiction about implementation of the revised Standard.
3. The significant changes in the revised Standard as listed in the Table is given for the purpose of general guidance. BOs shall ensure that the product conforms to all the requirements, as applicable, as per the revised Standard.

Clause	Requirement
A	Major changes
	<ol style="list-style-type: none">1. Main chemical constituent requirement revised e.g. Sodium/ Potassium bicarbonate in BC powder reduced to 75 % from 90 % Minimum.2. Fire performance test using portable fire extinguisher as per IS 15683 : 2006 is added.3. Caking, lumping, hardness and heat resistance test deleted in the revised ISS as hygroscopicity, moisture content, fluidity and water repellency test take care of them.4. Marking clause modified and manufacturer needs to declare chemical constituent in the powder and other chemicals used if exceeding 10 %.5. Restriction for use of the powder covered under the ISS specified.
B	Other common changes in the revision
	<ol style="list-style-type: none">1. Clause 3 – Terminology for defining class and batch added2. Clause 4 – Classification of powder added3. Clause 6 – General requirements added

	<p>4. Annex-C – Shaking time revised to 20 minutes in place of 10 minutes</p> <p>5. Annex-D – Method of testing of hygroscopicity revised</p> <p>6. Annex-E – Temperature at initial stage of testing added as $27 \pm 5^{\circ}\text{C}$</p> <p>7. Annex-F – Method for determination of moisture content modified</p> <p>8. Annex-H – Method of test for foam compatibility modified</p> <p>9. Clause 8 - Packing clause modified with additional requirement</p>
C	<p>Changes in requirement of each type of powder as compared to prerevised Standard :</p> <p>1. ABC Type powder:</p> <p>a) Polyammonium phosphate is deleted from chemical content and minimum requirement for monoammonium phosphate is reduced to 40 % from 50 %</p> <p>b) Apparent density and particle size/sieve distribution test values need to be declared by manufacturer.</p> <p>c) Limit of hygroscopicity value revised to 2 % Max from 1.5 % Max.</p> <p>d) Moisture content value revised to 0.5 % Max from 0.25 % Max.</p> <p>e) Foam compatibility test is now optional test as per manufacturer requirement.</p> <p>f) Fire test requirements modified and test method also revised</p> <p>g) Temperature resistance test added</p> <p>2. D-Type powder:</p> <p>a) Main chemical content and minimum main chemical constituent value specified with its method of testing</p> <p>b) Apparent density and particle size/sieve distribution test values need to be declared by manufacturer.</p> <p>c) Hygroscopicity value specified and method of test included</p> <p>d) Moisture content added.</p> <p>e) Foam compatibility test added as optional test as per manufacturer requirement with value specified and test</p>

	<p>method specified.</p> <p>f) Rate of flow, test method and requirement specified</p> <p>g) Fire test requirements modified and test method also revised</p> <p>h) Temperature resistance test added</p> <p>i) Colour requirement added</p>
	<p>3. BC- Type Powder :</p> <p>a) Minimum main chemical content requirement is reduced to 75 % from 90 %</p> <p>b) Apparent density and particle size/sieve distribution test values need to be declared by manufacturer.</p> <p>c) Limit of hygroscopicity value revised to 2 % Max from 1.5 % Max.</p> <p>d) Moisture content value revised to 0.5 % Max from 0.25 % Max.</p> <p>e) Foam compatibility test is now optional test as per manufacturer requirement.</p> <p>f) Fire test requirements modified and test method also revised</p>

4. Consequent upon the issuance of the revised Standard, existing STI has been revised and Product Manual Doc: PM/IS 4308/1, January 2019 incorporating SIT issued separately.

5. The guidelines for implementation of the revised Standard is given below:

A. Licensees:

- (i) All Licensees shall implement the revised Standard by **08 July 2019**. BOs shall ensure that no Licences are under operation as per the old Standard after **08 July 2019**.
- (ii) Licensees shall submit evidence of conformity to the additional/modified requirements through In-house/Independent Test Reports or Test Certificates, as applicable. Verification of additional facilities, if any, may be done during the next visit.
- (iii) If the licensee is holding more than one licence for IS 4308 : 2003 or IS 4861 : 1984 or IS 14609 : 1999, these licences shall be merged into one licence. The licensee may retain one of the licence number from these licences and other licence(s) shall be processed for cancellation. If the firm is holding

only one licence as per IS 4308 : 2003 or IS 4861 : 1984 or IS 14609 : 1999, same shall be changeover to revised IS 4308 : 2019.

- (iv) If the Licensee fails to complete all actions by **08 July 2019** it shall be dealt with as per the prevailing guidelines.

B. Applications for Grant of Licence:

- (i) Existing Applications where Sample has been submitted in the Laboratory/Test Report has been issued by the Laboratory may be processed as per the old Standard. However, if the Applicant is desirous of considering the Application as per the revised Standard, a declaration may be obtained from the Applicant to that effect and the Application may be processed accordingly. An undertaking shall also be obtained from such Applicants that if the sample fails while considering the provisions of the revised Standard, Licence will not be granted as per the old version.
- (ii) Applications which are recorded henceforth may be processed as per the old Standard or the revised Standard. Processing of Applications as per the old Standard shall be permitted only upto **08 July 2019** and for such cases Applicant shall give a declaration that they will implement the revised Standard by **08 July 2019**.
- (iii) Beyond **08 July 2019** no Licence shall be granted as per the old Standard.

C. Change in Scope of Licence:

- (i) For change in scope of licence, the relevant provisions as given above for Applicants shall apply.
- (ii) However, processing of such applications for change in scope of licence as per the old Standard shall be permitted only upto the date of implementation of the revised Standard or upto **08 July 2019** whichever is earlier.
6. The above guidelines come into force with immediate effect.

(S D Rane)
Sc-E

Head (CMD III)

DDG (Certification)