REVIEW ANALYSIS OF INDIAN STANDARD

Sectional Committee No. & Title: MED 30 (Gaskets And Packing)

1. IS No: IS 14539 : 1998

2. Title: Insulation mill board - Specification

3. Date of review: 16.09.2021

4. Review Analysis

i) Status of standard(s), if any from which assistance had been drawn in the formulation of this IS.

Standard (No. & Title)	Whether the standard has since been revised	Major changes	Action proposed
NA	NA	NA	NA

ii) Status of standards referred in the IS

Referred standards (No. & Title)	IS No. of this standards since revised	Changes that are of affecting the standard under review	Action proposed
NA as no IS referred	NA	NA	NA

iii) Any other standards available related to the subject & scope of the standard being reviewed (International/regional/other national/association/consortia, etc. or of new or revision of existing Indian Standard)

Standard	Provisions that could be relevant	Action proposed
(No. & Title)	while reviewing the IS	
JSS 5640-4:	Cl. 4-Material	Assistance from this Standard
2017	Cl.9 -Quality Assurance	may be drawn for revising the
Asbestos Mill	Tests (a) Hygroscopic moisture	standard and for uniformity of
Board	liss on drying at (105+/- 1 degree	standard in the country.
	C) (b) Asbestos content (c)	
	Acidity/Alkalinity (i) Acidity to	
	methyl orange (ii) Alkalinity to	
	phenolphthalein , percent by	
	mass (d) Resistance to change of	
	texture and softening	

	Appx A, C, D	
GOST 2850-	Not available at BIS Library/MED	NA
1958	as informed through Email	
BHEL AA 21525	Not available at BIS Library/MED	NA
& PS 21502B	as informed through Email	
OFM No.	Not available at BIS Library/MED	NA
62.020 ASTM	as informed through Email	
Classification: F		
104 F 132000		

iv) Technical comments on the standard received, if any

No technical comments received, as informed by member secretary through email.

Source	Clause of IS	Comment	Action proposed
NA	NA	NA	NA

v) Information available on technical developments that have taken place (on product/processes/practices/use or application/testing/input materials, etc)

Source	Development	Relevant clause of the IS under review that is likely to be impacted (Clause & IS No.)	Action proposed
Thermal Papers Private Limited	He has informed that (a) Test for compressibility and Recovery may be deleted as per present testing practice in the industry following GOST standard (b) Specified requirement for	Table 1 , CL. 3.2, 7.10	Test for compressibility and Recovery May be deleted after consensus in the technical committee for this IS.
	Tensile strength in either direction may be modified.	Table 1, Cl. 3.2 7.4	Tensile strength of the sample differs in along the grain direction and across the grain direction

			(as same follows in standards for plywood). So, different specified minimum values for tensile strength may be
			given in IS –(a)along the grains (b) across the grains aligning with GOST standard.
Sigma Sealing & Insulations Pvt Ltd	IS may be aligned with GOST standard, specifically with tests specified.	Table 1, CL.3.2	May be considered.

vi) Issues arising out of changes in any related IS or due to formulation of new Indian Standard

No referred or cross referred standard for this IS.

Related IS and its Title (revised or new)	Provision in the IS under review that would be impacted & the clause no. or addition of new clause/provision	Changes that may be necessary in the Standards under review	Action proposed
NA	NA	NA	NA

vii) Any consequential changes to be considered in other IS

No referred or cross referred standard for this IS.

Related IS to get impacted	Requirements to be impacted
NA	NA

5. Any other observation: Following observations have been made by under-signee while reviewing the standard:

- (i) In table 1, Column 3, specified value for Chloride(CL) and Sulphate(SO4), shall be "No formation of suspended matter shall be observed". instead of "traces".
- (ii) In table 1, Column 3, specified values for compressibility, shall be "between -15% to -40%" as in the formula given for calculating compressibility, T1<T2 and T1>T0.
- (iii) In cl. 5.2.1, second line, instead of "Bureau of Indian Standards Act , 1986", it shall be "Bureau of Indian Standards Act, 2016" .

6. Recommendations:

The following may be amended in the standard:

- Following tests may be added in the IS, aligning to JSS 5640-4: 2017 issued by Ministry of Deference, Govt. of India for uniformity of Standard in the country and since its version is latest revised i.e. in year 2017 (a) Hygroscopic moisture liss on drying at (105+/- 1 degree C) (b) Asbestos content (c) Acidity/Alkalinity (i) Acidity to methyl orange (ii) Alkalinity to phenolphthalein, percent by mass (d) Resistance to change of texture and softening € Requirements of material (raw material) i.e. material shall be free from cotton and other vegetable fibers. The binding material shall be of best grade quality, free from deleterious matter, and only a minimum quantity of it necessary to manufacture compact sheets shall be used.
- Test for compressibility and Recovery May be deleted after consensus in the technical committee for this IS, aligning with GOST standard as proposed by manufacturer.
- Tensile strength of the sample differs in along the grain direction and across the grain direction (as same follows in standards for plywood). So, different specified minimum values for tensile strength may be given in IS –(a)along the grains (b) across the grains aligning with GOST standard, as it has been found in discussion with manufacturers that they follow GOST standard for this product.
- In table 1, Column 3, specified value for Chloride(CL) and Sulphate(SO4), shall be "No formation of suspended matter shall be observed". instead of "traces".
- In table 1, Column 3, specified values for compressibility, shall be "between -15% to -40%" as in the formula given for calculating compressibility, T1<T2 and T1>T0.
- In cl. 5.2.1, second line, instead of "Bureau of Indian Standards Act, 1986", it shall be "Bureau of Indian Standards Act, 2016".

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