**Minutes**

***of***

**1st meeting of WG01**

**Subject :** Discussion on draft of IS 10773

**Date & Time :** 05 November 2024, 03:00 pm

**Mode :** Virtual

*Convenor:* Shri Shankar Sapaliga *Member Secretary:* Vishal Kumar Rana

Meeting attendance:

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| --- | --- | --- | --- |
| **Sl No.** | **Organization** | **Member** | **email** |
|  | International Copper Association India, Mumbai | Shri Shankar Sapaliga | shankar.sapaliga2@gmail.com |
|  | Birla Copper Limited, Mumbai | Shri Chintamani Kulkarni | chintamani.kulkarni@adityabirla.com |
|  | MetTube Copper India Private Limited, Ahmedabad | Shri Rajagopal Muthu | rajagopal@mettube.com |
|  | LG Electronics India Private Limited, New Delhi | Shri Aditya Anil | aditya.anil@lge.com |

**Item 1 Opening Remarks by BIS**

Member Secretary, Shri Vishal Kumar Rana welcomed the members to the Working Group 01 meeting to discuss on the draft of IS 10773.

**Item 2 Discussions Held**

The working group deliberated on the draft IS 10773 and the decisions made by the working group is given below in clause wise manner:

1. **Table 1:** The working group after detailed deliberation decided to split Oxygen Free grade (Grade 1) mentioned in Table 1 into 3 grades Cu-OF 1, Cu-OF 2 and Cu-OF 3.
2. **Clause 8:** The working group decided to discuss clause 8 in the next meeting.
3. **Clause 8.2.2:** The working group after deliberation requested Shri Chintamani Kulkarni to give the values for tolerances.
4. **Clause 10.4.2:** The working group discussed on the applicability of the Hydrostatic Test and what should be the frequency of selecting samples for the Hydrostatic Test and after deliberation the working group concluded and decided that one sample from each lot shall be selected for the Hydrostatic Test.
5. **Clause 10.4.3:** The working group discussed on the applicability of the Pneumatic Test and what should be the frequency of selecting samples for the Pneumatic Test and after deliberation the working group concluded and decided that one sample from each lot shall be selected for the Pneumatic Test.
6. **Clause 10.5:** The working group after detailed deliberation modified the value of grain size for Light annealed to 0.015 to 0.040 mm and for Soft annealed to 0.040 mm (Min) as per ASTM B-75.
7. **Clause 11.1:** Shri Aditya Anil (LG Electronics India Private Ltd.) proposed to lower the value to 0.015 g/m2 to make the standard more stringent for Indian market as residue is responsible for the leakage of tube in certain areas e.g. Delhi NCR. However, representative from manufacturers Shri Chintamani Kulkarni and Shri Rajagopal Muthu mentioned that the leakage in tubes is not because of residues and because of the external corrosive environment. Since, there is a lack of clarity on the situation hence, the member secretary recommended that the maximum value of residue content shall be maintained as par with other national body standards which are followed internationally and in case it needs to be made more stringent BIS has provision of R&D project which can be done in this case. The working group after detailed deliberation decided to keep the remaining residue limit up to 0.038 g/m2.
8. Also, working group asked Shri Chintamani Kulkarni to provide the IGT schematic diagram by properly labelling the dimensions in the figure and the modified draft is attached below: