

PSGSG/ 22-23/001	Product Specifications Copper-chromium rods	Drg.No.	
		Date	09.06.2022
		Product	Copper chromium rod
S.NO	BHEL Specification	Vendor compliance	
		YES/NO	Remarks
1.0	Application: For use as contacts in gas insulated switchgear and other high current applications		
2.0	Specifications : Dimensions: Diameter of 122 mm and length of 100 mm. (Quantity – 12 No.)		
3.0	Material: Cu-Cr alloy Copper : 99% Chromium: <1 % Balance: Non-reactive, High electrical conductivity material like Ag, etc. This alloy shall be made using fine alloying practices so as to minimize occlusion of gases. The copper used for alloying shall be 99.97% pure. Electrolytic grade is preferred		
4.0	Electrical Conductivity : The electrical conductivity of the material should be $\geq 82\%$ (IACS)		
5.0	Tests & Inspection: 1) The supplied material shall be subjected to conductivity measurement. The sample shall exhibit IACS conductivity greater than or equal to 82%. 2) The components shall be physically inspected for cracks and blow holes. No blow holes are permitted. 3) Material shall be inspected for dimensional checkups. Dimensional report shall be submitted along with supply		
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