OSM/IN DECISION

Standard:	EN 60998-1:2004	**Sub clause:**	11.5	**Sheet N°:**	OSM/IN 264
Subject:	Suitable metals given in the standard - e.g. copper and alloy consisting of 58% or 50% copper	**Key words:**	- Cu contents	**Meeting N°:** **Item:**	22 (2012) 3.4 e)

Question:	According to EN 60998-1, sub-clause 11.5: "Current-carrying parts, including all terminals, shall be of a metal having, under the conditions occurring in the equipment, mechanical strength, electrical conductivity and resistance to corrosion adequate for their intended use. *Compliance is checked by inspection and, if necessary, by chemical analysis."* The standards gives also examples of suitable metals, when used within a permissible temperature range and under normal conditions of chemical pollution, Accepted material is for instance: – copper; – an alloy containing at least 58 % copper for parts that are worked cold or at least 50 % copper for other parts. - Is a Cu-alloy containing less than 58 % copper (for parts that are worked cold) or less than 50 % copper (for other parts) considered as a suitable metal to be used in current carrying parts, including all terminals, within the meaning of this clause? - If Yes: Which additional requirements (if needed) shall be met?
Decision:	No**.** Cu-alloy in current-carrying parts, including all terminals shall contain at least 58 % copper for parts that are worked cold or at least 50 % copper for other parts.
Explanatory notes:	The requirements regarding min Cu-contents is also published in IEC/TR 61916(ed.2):2009 "Electrical accessories – Harmonization of general rules" prepared by IEC/TC 23.