

EN 12472:2005 New method for Nickel Release of Coated Products

The approval of the European Standard method EN 12472:2005 "*Method for the simulation of wear and corrosion for the detection of nickel release from coated items*"



by the European Committee for Standardization (CEN) on 21 November 2005 resulted in the publication of the standard in December 2005. This standard was to supersede EN 12472:1998. Its recognition as a national standard, either

by publication of an identical text or by endorsement, was to be at the latest by June 2006, and conflicting national standards were to be withdrawn by June 2006. Several countries in Europe have already published their national standards, eg BS EN 12472:2005 (United Kingdom), NF EN 12472:2006 (France) and DIN EN 12472:2006 (Germany)

The similarities and differences between the 2005 and 1998 versions are shown in Table 1.

As of 20 October 2006 the standard EN 12472:2005 however, has not yet been published as a harmonized standard for compliance with Directive 94/27/EC in the Official Journal of the European Communities (OJEC).

From the legal perspective, the European standard method EN 12472:1998 retains official recognition until publication of the 2005 version in the OJEC.

With our Global network of laboratories, SGS is able to provide you with a range of services, including analytical testing and consultancy, for the presence of nickel release using either EN 12472:1998 or EN 12472:2005.

Procedure	EN 12472	
	2005 Version	1998 Version
Sample Preparation	Parts of items which are not intended to come into prolonged contact with the skin may be removed before being subjected to corrosion and/or wear. Extraneous grease and skin secretions are removed by degreasing solution.	Extraneous grease and skin secretions are removed by degreasing solution.
Corrosion	Items are suspended above corrosion medium at 50 °C for 2 hours.	
Wearing	Items are attached inside retaining assembly, placed into tumbling barrel and rotated at a specified speed for 5 hours with a wear medium of abrasive paste and granules.	Items are placed into cylindrical container and rotated at a specified speed for 4 hours with wear medium and abrasive chips.

Please also refer to our SafeGuards 04405 dated August 2005, on Nickel release for jewelry or body accessories.

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