

DIN EN 12472:2020-11 (E)

Method for the simulation of accelerated wear and corrosion for the detection of nickel release from coated items

Contents	Page
European foreword	3
Introduction	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	5
4 Principle	5
5 Reagents and materials	6
5.1 General	6
5.2 Corrosion	6
5.2.1 Container	6
5.2.2 Corrosive medium	6
5.2.3 Degreasing solution	6
5.2.4 Deionized water	6
5.2.5 Laboratory oven	6
5.3 Wear	6
5.3.1 Tumbling barrel and retaining assembly	6
5.3.2 Wear test apparatus	7
5.3.3 Abrasive paste	7
5.3.4 Granules	8
5.3.5 Wear medium	8
6 Procedure	8
6.1 Article preparation	8
6.2 Corrosion procedure	8
6.3 Wear procedure	8
6.3.1 Preparation of wear medium	8
6.3.2 Attachment of test parts	9
6.3.3 Tumbling	9
6.4 Determination of nickel release	9
7 Test report	9
Annex A(informative) Detailed examples of how to attach different types of test parts	10
A.1 General	10
A.2 Attachment of test parts with only one side in contact with the skin	10
A.3 Spectacle frames and sunglasses	10
A.4 Chains, watches, bracelets, rings etc	14
Bibliography	16