

ISO/TS 24348:2014-02 (E)

Ophthalmic optics - Spectacle frames - Method for the simulation of wear and detection of nickel release from metal and combination spectacle frames

Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Requirement	1
4 Method for the corrosion and abrasion of coated metal spectacle frames before the determination of nickel release	2
4.1 Principle	2
4.2 Reagents and materials	2
4.3 Sample preparation	5
4.4 Corrosion procedure	6
4.5 Wear procedure	6
4.6 Determination of nickel release	7
5 Method for the determination of nickel release	7
5.1 Principle	7
5.2 Materials and reagents	7
5.3 Apparatus	8
5.4 Samples	8
5.5 Procedure	9
5.6 Calculations	11
6 Test report	11
Annex A (informative) Statistical uncertainty of the test procedure and interpretation of results	13
Annex B (informative) Rules for production and preparation of reference material	15
Annex C (informative) Identification and determination of sample area and coating of non-significant areas	17
Annex D (informative) Articles made from materials capable of releasing small amounts of nickel	18
Bibliography	19