

ISO 3160-2:2015-12 (E)

Watch-cases and accessories - Gold alloy coverings - Part 2: Determination of fineness, thickness, corrosion resistance and adhesion

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	General	2
5	Determination of gold fineness	2
5.1	General	2
5.2	Methods of gold fineness determination	2
6	Determination of thickness	3
7	Determination of the corrosion resistance	3
7.1	Forms of corrosion	3
7.2	Sampling and preparation	4
7.2.1	General	4
7.2.2	Test of finished items (ready-for-use condition)	4
7.2.3	Test of coating process (without passivation treatment)	4
7.2.4	Non-significant surfaces	4
7.3	Continuity of the covering (porosity test)	4
7.3.1	General	4
7.3.2	Test for a copper-containing base metal with or without nickel, and die- cast zinc-based alloys	4
7.3.3	Test a ferrous base metal	5
7.3.4	Non-determination of base metal	6
7.3.5	Testing with nitric acid vapour	6
7.4	Synthetic perspiration test	6
7.4.1	Test vessel	6
7.4.2	Test solution	6
7.4.3	Position of the sample	6
7.4.4	Temperature during the test	6
7.4.5	Duration of the test	6
7.5	Neutral saline mist test	7
7.5.1	General	7
7.5.2	Criteria	7
7.6	Test of the effects of agents containing sulfur	7
7.6.1	Thioacetamide test	7
7.6.2	Flowers of sulfur test in a moist atmosphere	7
8	Adhesion test	7
Annex A (normative)	Method of obtaining a sample of gold alloy covering	8
Annex B (normative)	Implementation of the reference methods for the determination of gold alloy coating fineness	10

Annex C (normative) Description of the main tests for determination of the thickness of gold alloy coverings	12
Bibliography	14