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Translated by: www.ChineseStandard.net

Wayne Zheng et al.

Email: Sales@ChineseStandard.net

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QB/T 4055.1-2010

Cermet Casings of Watches Part 1: Oxide Cermet Casings

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Foreword

The standard of QB / T 4055 "Cermets casings of watches" is divided into two portions:

Part1: Oxide cermet casings

Part2: Carbide cermet casings

This Section is Part 1 of QB/T4055.

Appendix A of this Section is normative.

This Section was proposed by the China Light Industry Federation.

This Section is administered by the National Standardization Center.

This Section is drafted by companies: Shenzhen FIYTA Sophisticated Manufacturing Co., Ltd.; Shenzhen Fiyta (Group) Co., Ltd.

This Section is drafted by: Jie Chen, Bao Xianyong, Yan Ming, Cui Xiaolong, Zhang Na.

This Section is first-time released.

Cermet casings of watches Part 1: Oxide cermet casings

1 Scope

This Section specifies the terms and definitions, technical requirements, test methods, inspection rules and marking, packaging, transportation and storage of oxide cermet casings of watches (Hereinafter referred to as "casing").

This Section applies to the casings which use zirconia (ZrO_2) as the main composition of Oxide cermet. Casings which use other ingredients may also reference to this Standard.

2 Normative references

The following normative documents contain provisions which, through reference in the text, constitute provisions of this Section. For dated reference, subsequent amendments to, or revisions of, any of these publications (excluding contents of corrigenda) do not apply. However, parties who enter into agreements based on this Section are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. For undated references, the latest edition of the normative document referred to applies.

GB/T 2828.1 Sampling procedures for inspection -part1: Batch inspection sampling plan by acceptance quality limit (AQL) retrieval.

GB/T2829 periodic inspection Sampling procedures and tables (for testing the stability of the production process).

GB/T 3489 Metallographic determination of porosity and uncombined carbide carbon.

GB/T4028 Inspection location marker of the timing equipment.

GB/T 6569 Fine ceramics bending strength test method.

- GB/T 7997 Carbide Vickers hardness test method.
- GB/T 10700 Fine ceramics elastic modulus test method for bending method.
- GB/T 14256 Timing of academic language -Part2: technical and commercial definitions
- QB/T 1901.2 Cases and accessories gold alloy coverings - Part2: purity, thickness, corrosion resistance and bonding strength.

3 Meaning

Marking "fine ceramics", and casings made of Oxide cermet, shall meet the requirements specified in this Section.

4 Terms and Definitions

The definitions established in GB/T14256 and the following terms and definitions apply to this Section.

4.1 Fine ceramic

The ceramic which adopts highly-selected raw materials; consists of precise chemical composition; is manufactured according to the methods of easy-structural-design and easy-manufacturing-control; and has excellent characteristics.

4.2 Casing

All parts which attach to the machine-core, have effect on the shape, protection, fixing, and control of the machine-core. They refers to the watch case, back-cover, crown, buttons, and watch-belt.

5 Technical Requirements

5.1 Impact resistance

After the impact test, the casings shall be no-damage, no-chipping, no-cracks and no-other-defects; connecting parts shall be no-shedding.

5.2 Corrosion resistance

After the corrosion test for a predetermined time in Table 1, the surface of the casings

C) When the product design, structure, processes, materials have significant changes or when the product transfers production.

D) When National Quality Supervision and Inspection agency calls for the type inspection.

8 Marking, packaging, transportation, and storage

8.1 Marking

If casings meet the requirements of Chapter 5, it may use the following markup language and terminology - in product certification or manual of the corresponding watch; or at appropriate position of the watch.

English	Abbreviations
all fine ceramic	AFC
fine ceramic case	FCC
fine ceramic bezel	FCB
band with semi-fine ceramic	BSFC
band with fine ceramic	BFC

8.2 Packaging

8.2.1 Casings shall be loaded into a fixed and reliable box, to ensure no-collision, no-extrusion and no-damage.

8.2.2 Packaging shall have the functions of avoiding moisture and shock, external packing shall have the logos of "Handle with Care", "Moisture-proof".

8.3 Transportation and storage

8.3.1 During the transportation, casings shall be handled with great care, they cannot be squeezed and need avoiding-shock, voiding-strong-vibration.

8.3.2 When casings are stored, they shall not be piled with other heavy objects.

Storage environment shall be kept dry and ventilated. And it shall be stored away from those goods which may generate corrosive gases.

References and Original Chinese Documents

[1] QB/T 4055.1-2010 Cermet casing of watches. Part 1:Oxide cermet casings.

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