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Craft crystal decoration

工艺水晶饰品

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Craft crystal decoration

1 Scope

This Standard specifies the terms and definitions, requirements, test methods, inspection rules, marking, packaging, transportation and storage for craft crystal decoration.

This Standard applies to craft crystal decoration (hereinafter referred to as the decoration) that takes synthetic crystal, crystal glass and natural crystal as the main raw materials.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

GB/T 191, *Packaging and storage marks*

GB/T 7962.1, *Test methods of colourless optical glass - Part 1: Refractive index and coefficient of dispersion*

GB 28480, *Adornment - Provision for limit of baneful elements*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1 craft crystal decoration

with synthetic crystal, crystal glass and natural crystal as the main raw materials, the artworks, handicrafts, decorations and daily necessities that are made by mechanical and manual processing and assembly such as thermoforming, cutting, grinding and polishing

3.2 synthetic quartz

a crystalline material formed under artificial conditions with silica as the main raw material; its crystal structure is similar to that of natural crystal, the color is uniform, and the crystal defects are few

5.5.3 Weighing of specimen

Weigh 0.5000g (accurate to 0.0001g) of specimen. The specimen weighing operation shall be as fast as possible to avoid moisture absorption of the specimen.

5.5.4 Digestion of specimen

5.5.4.1 Place the weighed specimen in a 35mL platinum crucible. Moisten with a little distilled water. Add 8mL of hydrofluoric acid and 5mL of sulfuric acid (1+1). Heat slowly in a fume hood to decompose until smoking.

5.5.4.2 Cool after the smoke disappears. Use distilled water to rinse the inner wall of the platinum crucible. Add 3mL of sulfuric acid (1+1). Then heat and smoke.

5.5.4.3 Cool to room temperature. Use distilled water to dissolve the residue. Transfer to a 50mL volumetric flask. Dilute to the scale. Shake well for later use.

5.5.5 Specimen measurement

Use atomic absorption spectrophotometry (flame method) to determine. Use the direct comparison method to perform quantification.

5.6 Color stability

Use a 40W UV lamp (wavelength 253.7nm) to irradiate at a distance of 20cm from the surface of the decoration.

6 Inspection rules

6.1 Exit-factory inspection

6.1.1 Batching

Products of the same variety, type and level produced in each shift are grouped as a batch.

6.1.2 Sampling

10 samples are randomly selected from each batch. 5 pieces are for inspection samples, and 5 pieces are for preparation samples. If the total number of products in the batch is less than 10, full inspection will be conducted.

6.1.3 Inspection items

Visual inspection items in appearance quality, dimensional tolerance, and assembly requirements.

6.1.4 Inspection methods

Each batch of exit-factory inspection items must be accepted. If one item fails, the responsible department shall decide to scrap or re-inspect the batch after analyzing the specific failure situation. If the product resubmitted for inspection still fails to meet the requirements, the batch will be deemed rejected.

6.2 Type inspection

6.2.1 When designing a new product or improving the original product, when there is a major change in the production process, when there is a large difference between the exit-factory inspection and the last type inspection result, the type inspection shall be carried out.

6.2.2 Type inspection shall randomly select samples from mass-produced products according to the provisions of 6.1.2. Check item by item according to all items in Chapter 4. The test method shall be carried out in accordance with the provisions of Chapter 5.

6.2.3 During the type inspection, all inspection items shall be accepted.

6.2.4 Inspection item classification:

- a) Class A: Refractive index, transmittance, surface roughness, lead, cadmium;
- b) Class B: Dimensional tolerances, assembly requirements, color stability;
- c) Class C: Appearance quality (including overall appearance, engraved lines, bubble diameter, allowable number of visible bubbles, color uniformity).

6.3 Determination rules

When all inspection items are accepted, the batch of products shall be accepted. If an item in Class A fails, the batch of products shall be rejected. When an item in Class B fails, if the re-inspection procedure passes the inspection, the batch of products shall be determined as rejected. If it is still fails, the product will be determined as rejected. If there are two or more failed items in Class C, the batch of products will be determined as rejected.

7 Marking, packaging, transportation, storage

7.1 Marking

The product or the outer packing box shall have the product name, product standard number, raw material name, quality grade, inspection certificate, enterprise name and address, quantity, net weight and other signs. The symbols shown in the figure, that the product shall be handled with care, the product is fragile, the product shall be put upward and be moisture-proof, shall comply with the provisions of GB/T 191.

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