

Test plan for a pencil with an eraser

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Introduction

The purpose of compiling this Test Plan is to describe the process of testing a pencil with an eraser.

Testing Object: a pencil with an eraser.

It is supposed to conduct:

- Product overview
- Pencil quality
- Eraser quality
- Writing quality testing
- Ergonomics and comfort of use
- Toxic Absence Test
- Packaging
- Long-term test
- General quality test
- Tests under the influence of external factors
- Child safety test
- Completion of the test

Product overview

- Checking the presence of a pencil and eraser.
- Evaluation of the overall appearance of the product.
- Checking the correct marking of information on the pencil.

Pencil quality

- Checking the condition of the slate for the absence of cracks, chips or other defects.
- Determination of the absence of chips or defects in the pencil case.
- Checking if the pencil has an unpleasant smell.

Eraser quality

- Assessment of flexibility and elasticity of the eraser.
- Checking for signs of aging or drying of the eraser.
- Test to remove pencil marks on paper using an eraser.

Testing of written quality

- Checking the linearity and uniformity of the remaining trace of the pencil after removal with an eraser.
- Testing the resistance of written text to erasure and burnout.

Ergonomics and comfort of use

- Determining the convenience of holding a pencil in the hand.
- Checking the presence or absence of irritation during long-term use.

Toxic substances free test

- Checking the compliance of the product with safety standards and the absence of toxic substances in the composition.

Packaging

- Assessing the reliability of packaging to prevent damage during transportation.
- Checking the availability and correctness of instructions for use.

Long-term test

- Conducting a test for the duration of service of a pencil and eraser during intensive use.

General quality test

- A combination of all previous tests to assess the overall quality of the pencil and eraser.

Tests under the influence of external factors

- Water resistance test.
- Frost resistance test.
- Thermal resistance test.

Child safety Test

- Determining the absence of sharp parts that may pose a threat to children.
- Checking product compliance with child safety standards.

Criteria for starting and ending testing a pencil with an eraser

Start of testing:

1. **Obtaining the product:** Ensuring that there are enough pencils with an elastic band for testing.
2. **Instrument inspection:** Conviction of the correctness and proper condition of all measuring instruments and testing devices.
3. **Assessment of conditions:** Ensuring the necessary conditions for performing tests such as temperature conditions, availability of water for water resistance tests, etc.
4. **Documentation:** Verification of the availability and relevance of technical documentation and standards to be used during testing.

Completion of testing:

1. **Performing all tests:** Completing all scheduled tests according to the test plan.
2. **Analysis of the results:** Processing and analysis of the results of each test, with recording of the obtained data and observations.
3. **Assessment of compliance with standards:** Determining whether the product meets the established quality and safety standards.
4. **Bug detection:** Registration of all detected bugs or inconsistencies, including their importance and impact on product quality.

5. **Preparation of the report:** Compilation of a report indicating the results of testing, identified risks, recommendations and possible improvements.
6. **Preparation for release:** Preparation of the product for release to the market, including all necessary adjustments and clarifications.

Risks and limitations

Risks:

- Incomplete material information.
- Changes in production conditions.
- Testing disadvantages.
- Interaction with other materials.
- Subjectivity in assessment.
- Seasonal or weather conditions.

Limitations:

- Regular update of the test plan.
- Additional interaction tests.
- Use of standardized indicators.
- Conditioned test planning.
- Use of current standards.

Completion of testing

- Create a report with the results of each test.
- Record detected defects and inconsistencies.
- Definition of the general conclusion about the quality of the product.

The test plan is designed for a detailed study of the quality of the pencil and eraser in various aspects and conditions of use.