Ningbo Yanxin Industrial Technology Co., Ltd.

[Desiccant Damage Inspection Report]

R&D Department

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1. Customer needs

Inspecting for product damage.

2. Experimental Objectives

- damaged

3. Experimental results and explanations

1. Category 1 Damage: The following are examples of damaged products. Damage can be detected by identifying pits or gray shadows on the product surface that are clearly contrasted with the original product, with an area larger than 1mm x 1mm. Wrinkles on the product are similar to damage and will be equally rejected, as shown in Figure 6. Damage overlapping with printing will reduce accuracy, as shown in Figure 2. Because this inspection is single-sided, undamaged surfaces may be detected during testing; single-sided damage detection may result in missed detections.



Figure 1 - Damaged Products



Figure 2 - Damaged Products



Figure 3 - Damaged Products



Figure 4 - Damaged Products



Figure 5 - Damaged Products



Figure 6 - Damaged Products



Figure 7 - Damaged Products



Figure 8 - Damaged Products

4. Detection prerequisites

All detectable features of the product must meet the following conditions

（1）The supply of raw materials for our products is stable.

（2）There are gaps between the products.

（3）Product features are visible on the surface.

（4）Product features are unobstructed.

（5）Because this test is a single-sided test, it is possible that the undamaged side will be detected during the test. Single-sided damage testing may result in missed detections.

5. Test Result Analysis

type	sample	Expected detection (Subject to actual conditions)	Minimum detectable accuracy

type	sample	Expected detection (Subject to actual conditions)	Minimum detectable accuracy
damaged	Provided	99%	To detect damaged products with pits or gray shadows that are clearly contrasted with the product surface and have an area of 1mm x 1mm or larger.

*The above data was analyzed by optical engineers based on experience under the premise of testing and minimum detectable accuracy. Everything is subject to the actual production status.

6. in conclusion

This type of product can be tested

1. damaged

Because this inspection is a single-sided inspection, it is possible that undamaged sides may be detected during the inspection, which may lead to missed defects. Double-sided inspection is recommended.

This conclusion is based on tests of the samples currently available. If other types of products are present, further analysis is required. These experimental results are based on the assumption that the tested products are uncontaminated.