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# QB

LIGHT INDUSTRY STANDARD

OF THE PEOPLE'S REPUBLIC OF CHINA

Class No.: Y 73

## QB/T 3826-1999

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### **Corrosion-Resistant Testing Method of the Metal Deposits and Conversion Coatings for the Light Industry Products – Natural Salt Spraying Test (NSS)**

轻工产品金属镀层和化学处理层的耐腐蚀试验方法

中性盐雾试验（NSS）法

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## Foreword

This Standard is same as national standard GB 5938-1986 *Corrosion-Resistant Testing Method of the Metal Deposits and Conversion Coatings for the Light Industry Products – Natural Salt Spraying Test (NSS)*, of which the standard number was transferred into GB/T 3826-1999 through the publication of GQX (1999) No.112 Document; while the content of which remained unchanged.

This Standard was proposed by the Industry Management Division of State Bureau of Light Industry.

This Standard shall be under the jurisdiction of National Center for Standardization of Daily Hardware.

Drafting organizations of this Standard: Shanghai Research Institute of Daily Hardware Industry, and Shanghai Light Industry Research Institute.

Chief drafting staffs of this Standard: He Changlin, Zhang Fulin, Dong Zicheng, and Jiang Haizhu.

# Corrosion-Resistant Testing Method of the Metal Deposits and Conversion Coatings for the Light Industry Products – Natural Salt Spraying Test (NSS)

This Standard is applicable to inspect the corrosion-resistant performance of metal deposits and conversion coatings.

This Standard refers to ISO 3768-1976 *Metal Coatings - Natural Salt Spraying Test (NSS Test)*.

## 1 Equipment

**1.1** The test equipment consists of salt spray chamber, saltwater container, compressed air supplying (including purifying) system, nozzle, sample frame, heating and other necessary controlled manners. If the obtained conditions can satisfy the requirements of this Method, the dimension and structure of the equipment shall not be confined.

**1.2** The structural materials of the test equipment shall not only influence the corrosion performance of the salt mist; but also is corrosion-resistant.

**1.3** No condensed droplets on the top of the salt spray chamber are allowed to drop onto the sample.

**1.4** Baffle is equipped in the salt spray chamber, which prevent the salt mist to jet onto the sample.

**1.5** Minimum two collectors used for cleaning are placed in the exposed area of the salt spray chamber. One collector is close to the nozzle; while the other shall be placed at the farthest place away from the nozzle. The placing positions of the collectors are required in condition that only salt mist rather than the liquid dropped from the sample or chamber shall be collected. A suitable collector indicates the 10cm-diameter funnel or crystal cup inserting into the graduate flask; while the collecting area is 80cm<sup>2</sup>.

**1.6** If the equipment has been tested by a different solution not stipulated in this test, it must be adequately cleaned before use.