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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 26296-2010

**Defects for anodic oxide coatings and organic polymer
coatings on aluminum and its alloys**

铝及铝合金阳极氧化膜和有机聚合物涂层缺陷

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Foreword

This standard is based on GB/T 1.1-2009 provisions for the preparation of the draft rules. The standard proposed by China Nonferrous Metals Industry Association. This standard by the national non-ferrous metals Standardization Technical Committee (SAC/TC243) centralized. Drafting of this standard. National Quality Inspection Center nonferrous metals, Fujian Nanping Aluminum Co., Ltd., Guangdong Jianmei Aluminum Factory Co. the company. Participated in the drafting of this standard. Suzhou ropes of the Alcoa Co., Ltd. Foshan Hua Hao Aluminum Co., Ltd., Guangdong phoenix aluminum Co., Ltd., Guangdong Xingfa Aluminium Co., Ltd, Guangdong Haomei Aluminum Co., Ltd., Shandong Nanshan Aluminum Co., Ltd., Guangdong Foshan new Aluminum Company Limited. The main drafters of this standard. Zhuzu Fang, Feng Dongsheng, Ji Hong, Dai Yue Xing, He Yaozu, blue Ahn, Chen Hui, Zhou Chunrong, Panwei Qian, Yan Ting column, Yu Quan and. Aluminum and aluminum alloy and anodized film Organic polymer coating defects

1 Scope

GB/T 26296-2010 is the Chinese national standard on defects for anodic oxide coatings and organic polymer coatings on aluminum and its alloys, in the field of manufacturing engineering. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 14 January 2011 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 November 2011. Classification: ICS 25.220.20, CCS H60. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the anodized aluminum and aluminum alloy film composite membrane defined anodic oxide and an organic polymer coating film defects, features, points Analysis of its main causes. This standard applies to anodized aluminum and

aluminum alloy film analysis and determination anodic oxide film and the organic polymer composite coating film defects.

2.1 Pre-processing defect

2.1.1 Skim bad uneven degreasing After etching the aluminum surface due to the inequality degreased incomplete generated exhibit different surface gloss, colored anodized aluminum that Surface color is uneven or the presence of pigmentation (Figure 1). The main causes.

- a) degreasing tank temperature is too low;
- b) degreasing bath insufficient active ingredient;
- c) soaking time is too short.

1 bad degreasing

2.1.2 Alkaline etching insufficient etching Aluminum in alkaline etching step, due to insufficient etching, so that the effect of the elimination of surface defects failed to meet expectations phenomena (such as figure 2). The main causes.

- a) Base tank temperature is too low;
- b) alkaline etching time is too short;
- c) an alkali concentration is too low;