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

GB/T 13911-2008

Replacing GB/T 13911-1992

Designation for metallic coating and chemical treatment

金属镀覆和化学处理标识方法

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1 Scope

GB/T 13911-2008 is the Chinese national standard on designation for metallic coating and chemical treatment, 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 1 July 2008 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 February 2009. Classification: ICS 25.220.40, CCS A29. 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 designation of metallic coating and chemical treatment. This standard applies to the designation for the electroplating, chemical plating, and chemical treatment for metallic and non-metallic parts. As for the designation for aluminum and aluminum alloy surface chemical treatment, it may make reference to the general designation methods as specified in this standard.

Note. when there is requirements for the metallic coating and chemical treatment which are not covered in this standard, it is allowed to make description in relevant technical documents.

2 Normative references

The provisions in following documents become the provisions of this Standard through reference in this Standard. For the dated references, the subsequent amendments (excluding corrections) or revisions do not apply to this Standard; however, parties who reach an agreement based on this Standard are encouraged to study if the latest versions

of these documents are applicable. For undated references, the latest edition of the referenced document applies.

GB/T 3138 Terminology for metallic coating, chemical treatment and related process (GB/T 3138-1995, neq ISO 2079.1981)

GB/T 9797 Metallic coatings - Electroplated coatings of nickel plus chromium and of copper plus nickel plus chromium (GB/T 9797-2005, ISO 1456.2003, IDT)

GB/T 9798 Metallic coatings - Electrodeposited coatings of nickel (GB/T 9798-2005, ISO 1458.2002, IDT)

GB/T 9799 Metallic coatings - Electroplated coatings of zinc on iron or steel (GB/T 9799-1997, eqv ISO 2081.1986)

GB/T 11379 Metallic coatings - Electroplated coatings of chromium for engineering purposes (GB/T 11379-2008, ISO 6158.2004, IDT)

GB/T 12332 Metallic coatings - Electroplated coatings of nickel for engineering purposes (GB/T 12332-2008, ISO 4526.2004, IDT)

GB/T 12599 Metallic coatings - Electroplated coatings of tin - Specification and test methods (GB/T 12599-2002, ISO 2093.1986, MOD)

3 Terms and definitions

The terms and definitions established in GB/T 3138 apply to this standard.

5 Examples of designation for typical coatings

5.1 Designation of nickel + chromium and copper + nickel + chromium electroplating on metallic base As for the designation of the nickel + chromium and copper + nickel + chromium electroplated layer on the metallic base, SEE the provisions of GB/T 9797 on designations; as for the designation of coating characteristics, SEE Table 3; the example of typical designation is as below; as for the non-typical designation, SEE GB/T 9797.

5.2 Nickel + chromium coating on plastic As for the designations of nickel + chromium, copper + nickel + chromium coating layer on plastics, SEE the provisions on designation in GB/T 12600; as for the coating characteristic designation, SEE Table

3.The example and description of designation are as follows:

5.4 Designation of zinc coating layer and cadmium coating layer on iron and steel As for the designations of zinc coating layer and cadmium coating layer on iron and steel, SEE the provisions on designation in GB/T 9799 and GB/T 13346; as for the chemical treatment and classification symbols related to electro-galvanizing and cadmium plating layer, SEE Table

4.The example and description of designation are as follows:

5.5 Designation of chromium electroplating for engineering purposes As for the designation for the chromium electroplated layer for engineering purposes, SEE the provisions in GB/T 11379. As for the characteristic symbols of the chromium coating for engineering purposes in the designation, SEE Table

5. In order to ensure good adhesion between the coating and the base metal, the chromium for engineering purposes shall, before and after electroplating, be subjected to heat treatment sometimes.

5.6 Designation of nickel electroplating for engineering purposes As for the designation for the nickel electroplating for engineering purposes, SEE the provisions of GB/T 12332. As for the engineering nickel coating type, sulfur content and ductility symbol in the designation, SEE Table

7. In order to ensure good adhesion between the coating and the base metal, the nickel for engineering purposes shall, before and after electroplating, be subjected to heat treatment sometimes. As for the characteristic symbols for the coating heat treatment, SEE Table

6. The example and description of designation are as follows:

5.8 Designation of silver and silver alloy electroplating for engineering purposes As for the designations for the silver and silver alloy electroplating for engineering purposes, SEE the provisions in ISO 4521. As for the commonly used thickness of precious metal electroplating, SEE Table