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

中华人民共和国国家标准

GB/T 13825-2008/ISO 1460: 1992

Replace GB/T 13825-1992

**Metallic coatings - Hot dip galvanized coatings
on ferrous materials - Gravimetric determination
of the mass per unit area**

金属覆盖层 黑色金属材料热镀锌层

单位面积质量称量法

(ISO 1460: 1992, IDT)

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China**

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Foreword

This Standard is identical to ISO 1460:1992 *Metallic Coatings - Hot Dip Galvanized Coatings on Ferrous Materials-Gravimetric Determination of the Mass Per Unit Area* (English version).

This Standard is drafted in accordance with translation of ISO 1460: 1992. This Standard has made the following editorial modifications corresponding to ISO 1460: 1992:

——In accordance with usual practices of the existing series standards for coatings, "metallic coatings" shall be added before the name of Standard;

——Deleted the foreword of international standards, and added the foreword of Chinese standards;

——Replaced "this International Standard" with "the Standard"

This Standard will replace GB/T 13825-1992 *Metallic Coatings - Hot Dip Galvanized Coatings on Ferrous Materials - Gravimetric Determination of the Mass per Unit Area*.

This standard, in comparison with GB/T 13825—1992, has the major changes as follows:

——Modified description of measurement procedures in accordance with instructions in ISO 1460;

——Measuring symbols used in ISO 1460:1992 are adopted in this Standard;

——Calculation formula of unit mass internationally accepted is adopted in Chapter 6 in accordance with the provisions of ISO 1460:1992;

——Modified test report in Chapter 7 and added footnote 1 in accordance with the provisions of ISO 1460:1992;

——Supplemented the requirements for repetition rate of Article 6.2 in accordance with the provisions of ISO 1460:1992.

This Standard is proposed by China Machinery Industry Federation

This Standard is under the jurisdiction of National Technical Committee (SAC/TC 57) on

Metallic and Non-metallic Coating of Standardization Administration of China.

The responsible drafting organizations are Beijing Yongtaihe Metal Anticorrosion Technology Co., Ltd, Maanshan Dingtai Rare Earth& New Materials Co., Ltd and Wuhan Material Protection Research Institute.

The chief drafting staff of this standard includes Ji Jing, Zhang Hongwei, Shi Zhimin, Liu Jilu and Jia Jianxin.

This standard replaces the following historical editions issued:

— GB/T 13825-1992.

Metallic coatings - Hot dip galvanized coatings on ferrous materials - Gravimetric determination of the mass per unit area

1 Scope

This Standard specifies a method of determining the mass per unit area of hot dip galvanized coatings on ferrous materials.

Since as exact knowledge of the area of the surface is essential, this International Standard is mainly applicable to shapes whose areas are easy to determine. If, with heavy samples, the specifications of clause 5 cannot be met, then the hot dip galvanized coating mass has to be determined by another method.

2 Principle

The hot dip galvanized coating on a surface of known area is dissolved in inhibited acid and the resultant loss in mass is determined by weighing the sample before and after the coating is dissolved.

3 Stripping solution

Dissolve 3,5 g of hexamethylenetetramine in 500 ml of concentrated hydrochloric acid ($\rho = 1,19 \text{ g/ml}$). Dilute this solution to 1 000 ml with distilled water.

4 Sampling

The method of sampling shall be agreed between the interested parties.

5 Procedure

Where necessary, the sample shall be degreased with an organic solvent that does not attack the hot dip galvanized coating, and then dried.

Before stripping, the sample shall be weighed to an accuracy better than 1 % of the presumed coating mass.



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