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

JB/T 5067-1999

Replacing JB/T 5067-1991

Sherardizing of iron and steel parts

钢铁制件粉末渗锌

(English Translation)

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Table of Contents

Foreword
1 Scope
2 Normative references
3 Definitions
4 Information to be supplied by the purchaser to the supplier
5 Technical requirements
6 Sampling
7 Inspection methods
Annex A (Informative) Selection of thickness of sherardized coatings

1 Scope

This standard specifies the technical requirements and test methods for sherardizing of iron and steel articles (hereinafter referred to as "sherardizing").

This standard is applicable to sherardizing of parts and members made of carbon steel, low alloy steel, cast iron, etc.

This standard is not applicable to the sherardizing of iron and steel articles that need to be tempered at a temperature below 340°C to meet the mechanical properties requirements of the articles.

2 Normative references

The following standards contain provisions which, through reference in this standard, constitute provisions of this standard. At the time of publication, all editions cited are valid. All normative documents are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below.

GB/T 4956-1985 Non-magnetic coatings on magnetic substrates - Measurement of coating thickness - Magnetic method

GB/T 13825-1992 Metallic coatings - Determination of the mass for hot dip galvanized coatings on ferrous materials - Gravimetric method

JB/T 5069-1991 Metallized coatings of steel parts - Metallographic determination method

3.1 sherardizing

a surface treatment process of forming a sherardized coating on the surface of iron or steel by inter-diffusion of zinc and iron atoms which are produced by heating the sherardizing medium which is used as the source of zinc

3.2 sherardized coating

a coating of zinc-iron alloy layers formed on the surface of iron or steel by inter-diffusion of zinc and iron atoms

3.3 sherardizing medium

sherardizing medium consisting of zinc supplying component containing zinc atoms, with or without filling component and activating component as required