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National Standard of the People's Republic of China

GB/T 12361-2003

In placed of GB/T 12361-1990

钢质模锻件 通用技术条件

General specification of steel die forgings

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Foreword

This Standard is used in lieu of GB/T 12361-1990: *General specification of steel die forgings*.

In comparison with GB/T 12361-1990, this Standard contains the following changes:

- It is compiled according to the stipulations of GB/T 1.1: *Directives for the work of standardization*;
- It has added Foreword portion of standard;
- It has cancelled the contents of acid cleaning technique;
- It has cancelled the contents of fracture inspection;
- It has added some other articles.

The Appendix A of this Standard is an informative appendix.

This Standard is proposed by China Machinery Industry Federation.

This Standard is governed by National Technical Committee of Forging and Stamping Standardization.

Drafting unit of this Standard: Dongfeng Motor Co., Ltd..

Main drafters of this Standard: Wu Yujian, Wu Tingsong and Cheng Chenwen.

1. Scope

This Standard specifies the classification, technical requirements, test methods, rules for inspections and delivery conditions of steel die forgings (hereinafter referred to as “Forgings”).

This Standard is applicable to the structural steel die forgings processed by die hammer, hot die forging press, screw press, horizontal forging machine or other forging and pressing equipment. It can be implemented as a reference for forgings of other steels.

This Standard can be used as the basis for product design department and for the Supplier & Buyer to conclude technical protocol, or as the basis for inspections on forgings.

2. Normative References

The following provisions contain provisions which, through reference in this text, constitute provisions of this standard. For dated reference, subsequent amendments to, or revisions of (excluding corrigendum contents), or Revised Edition do not apply. However, it is encouraged that every part of this standard to research the latest edition of these documents. For undated references, the latest edition of the normative document referred to applies.

GB/T 224 Determination of depth of decarburization of steels

GB/T 226 Test of pickling low-multiple form & lacuna of steel (neq ISO 4969)

GB/T 228 Metallic materials – Tensile testing at ambient temperature

GB/T 229 Metallic materials – Charpy notch impact test (eqv ISO 148)

GB/T 230 Metallic Rockwell hardness test (neq ISO 6508)

GB/T 231 Metallic Brinell hardness test

GB/T 321 Preferred numbers and preferred number series

GB/T 700 Quality carbon structural steels

GB/T 2828 Sampling procedures and tables for lot-by-lot inspection by attributes (Apply to inspections of successive lots)

GB/T 2829 Sampling procedures and tables for periodic inspection by attributes (Apply to inspections to process stability)

GB /T 3077 Alloy structural steels

GB /T 5216 Technical requirements for structural steel with specified hardenability bands

GB /T 7232 Terminology of metal heat treatment

GB /T 12362 Tolerances and machining allowances of steel die forgings

GB /T 12363 Classification of forging functions

YB /T 5148 Metal – Methods for estimating the average grain size

3. Technical Terms and Definitions

The following technical terms and definitions are applicable to this Standard.

3.1 Steel-smelting furnace number

The furnace (tank) number marked on steel products delivered at steel mill.

3.2 Heat treatment furnace number

The same forgings that are heat treated in the same furnace with the same process



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