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

中华人民共和国机械行业标准

JB/T 6395-2010

Replace JB/T 6395-1992

Specification of large gear and girth gear forgings

大型齿轮、齿圈锻件 技术条件

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China**

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Foreword

This Standard will replace JB/T 6395-1992 *Large gear and girth gear forgings*.

Comparison with JB/T 6395-1992, main changes of this Standard are as follows:

- Changed the P, S content (mass fraction) of chemical composition in original Table 1 as $P \leq 0.030\%$, $S \leq 0.030\%$, and added the requirements for Cu content;
- Changed the designation 34Cr2Ni2Mo in original Table 1 as 34CrNi1Mo;
- Changed the chemical composition of 30Cr2Ni2Mo and 15CrNi4MoA in Table 1 and 3;
- Changed the chemical composition indicator for Cr and Ti in Table 2 and added the chemical composition requirement for Cu;
- Changed the performance indicator for 42CrMo, 34CrNi1Mo, 16MnCr, 20CrMnTi and 17Cr2Ni2Mo in Table 3;
- Stipulated the retest requirements for 6.2.

This Standard is proposed by China Machinery Industry Federation.

This Standard is under the jurisdiction of Machinery Industry Large Forgings Standardization Technical Committee.

Draft unit of this Standard: China National Erzhong Group Co.

Chief drafter of this Standard: You Wei.

This standard replaces the following historical editions issued:

- JB/T 6395-1992.

Specification of large gear and girth gear forgings

1 Scope

This standard stipulates technical requirements, inspection rules, and test methods, certificate of quality, marks etc. of large gears (including gear shaft) and gear ring forgings.

This standard applies to large gears (including gear shaft), gear ring forgings order, manufacturing and acceptance.

2 Normative references

The provisions contained in the following document have become the provisions of this Standard when they are cited herein. The dated reference documents, including their list of modifications made thereafter (excluding corrections) or modified versions, shall not be applicable to this Specification. But, all parties who have concluded agreements based on this Specification are encouraged to study on the possibility to implement the latest version of these documents. Of the undated reference documents, their latest version shall be applicable to this standard.

GB/T 223 (All parts) Methods for chemical analysis of iron, steel and alloy

GB/T 228 Metallic materials--Tensile testing at ambient temperature (GB/T 228-2002, eqv ISO 6892: 1998 (E))

GB/T 230.1 Metallic materials - Rockwell hardness test - Part 1: Test method(scales A、 B、 C、 D、 E、 F、 G、 H、 K、 N、 T) (GB/T 230.1-2009, ISO 6508-1: 2005, MOD)

GB/T 231.1 Metallic materials—Brinell hardness test—Part 1: Test method (GB/T 231.1-2009, ISO 6508-1: 2005, MOD)

GB/T 6394 Metal-methods for estimating the average grain size (GB/T 6394-2002, ASM E112: 1996, MOD)

JB/T 5000.15-2007 Heavy mechanical general techniques and standards-Part 15:Non-destructive inspection of forged steel

JB/T 6397-2006 Specification for the heavy carbon structural steel forgings

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