

JB

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

JB/T 8881-2011

Replacing JB/T 8881-2001

**Rolling bearings - Carburizing heat treatment of parts -
Technical requirements**

滚动轴承 零件渗碳热处理 技术条件

(English Translation)

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1 Scope

This standard specifies the technical requirements for the pre-heat treatment before carburization and the primary quenching and tempering, high-temperature tempering and secondary quenching and tempering after carburization as well as the inspection methods for average grain size, case-hardened depth, hardness, microscopic structure and crack etc. of the rolling bearing parts made from G20CrMo(A), G20CrNiMo(A), G20CrNi2Mo(A), G20Cr2Ni4(A), G10CrNi3Mo(A) and G20Cr2Mn2Mo(A) that meet the requirements of GB/T 3203.

This standard is applicable to the carburizing heat treatment quality inspection for the above-mentioned rolling bearing parts made from carburizing bearing steel, and also is applicable to the carburizing heat treatment quality inspection for rolling bearing parts made from low carbon alloy steel.

2 Normative References

The following references are indispensable for the application of this standard. For dated reference, only the dated editions are applicable to this standard. For undated references, the latest edition (including any amendments) is applicable to this standard.

GB/T 230.1 Metallic Materials - Rockwell Hardness Test - Part 1: Test Method (Scales A, B, C, D, E, F, G, H, K, N and T)

GB/T 231.1 Metallic Materials-Brinell Hardness Test-Part 1: Test Method

GB/T 3203 Specification for Carburizing Steels of Bearings

GB/T 6394 Metal-methods for Estimating the Average Grain Size

GB/T 9450 Steels-Determination and Verification of the Depth of Carburized and Hardened Cases

GB/T 24606-2009 Rolling Bearings-Non-destructive Testing-Magnetic Particle Testing

JB/T 1255 -2001 Specification for Heat-treatment of Rolling Bearing Parts Made from High Carbon Chromium Steel

JB/T 7361 Rolling Bearings-Test Method for Hardness of Parts