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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 9100-1994

**Technical specifications for auxiliary fans used
for mine**

矿井局部通风机 技术条件

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Foreword

This Standard is the amendments of ZB J72 037-90 *Technical Specification for Auxiliary Fans used for Mine*.

Compared with the original Standard, the main technical content change of this Standard are as follows:

—The original Standard specified fan $\geq N_{\underline{0}5.0}$, complied with specification of Table 1 in the Standard when the maximum total pressure efficiency $\geq 78\%$, $<N_{\underline{0}5.0}$; this Standard specifies that fan $> N_{\underline{0}5.0}$, and when the maximum total pressure efficiency $\geq 80\%$, $<N_{\underline{0}5.0}$, the maximum total pressure efficiency shall be $\geq 75\%$.

—The original Standard did not specify the drawn-out type fan static efficiency; while this Standard specifies it for different types of the drawn-out type fan static efficiency.

—The original Standard specified that the product testing method shall be performed in accordance with the requirements of “General Purpose Axial Fan Technical Conditions”; while this Standard specifies it in more detail.

—This Standard adds the test projects of “Motor Maximum Output Power”.

—The test projects and judging principles of this Standard are different from the original Standard.

This Standard will replace ZB J72 037-90 from the implementation date.

The Standard is proposed and under the jurisdiction of the National Fan Standardization Technical Committee.

Drafter unit of this Standard: National Coal Mine Dustproof Ventilation Safety Product Quality Supervision and Testing Center, Institute of Shenyang Blower.

The chief drafting staff of this standard includes Han Guanrong, Ju Guanggang, Chen Mingliang and Zheng Hua.

PROFESSIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

Technical specifications for auxiliary fans used for mine

JB/T 9100-1999

Replace ZB J72 037-90

1 Scope

This Standard specifies the technical requirements, test methods, inspection rules, guarantee period, marking, packing, transportation and storage of the design and manufacture of auxiliary fans used for mine.

This Standard applies to auxiliary fans used for mine (hereinafter referred to as fan) driven by motors with the environmental temperature at -10°C to $+35^{\circ}\text{C}$, and altitude not exceeding 1,000 m

2 Normative References

The articles contained in the following documents have become this Standard when they are quoted herein. For the dated documents so quoted, all the modifications or revisions made thereafter shall not be applicable to this Standard. For the undated documents so quoted, the latest editions shall be applicable to this Standard.

GB/T 191-1990 Packaging - Pictorial marking for handling of goods

GB/T 1236-1985 Industrial fans-Performance testing using standardized airways

GB/T 2888-1991 Methods of noise measurement for fans, blowers compressors and Roots blowers

GB/T 3235-1999 Basic types sizes parameters and characteristics of fans

GB 3836.2-1983 Electrical apparatus for explosive atmosphere--Flameproof electrical apparatus d

GB/T 6388-1986 Transport package shipping mark

GB/T 9438-1988 Aluminium alloy castings

GB/T 10111-1988 Methods for random sampling by utilizing dices of random number

GB/T 13306-1991 Plates

GB 13813-1992 Testing method and judging rule of safety to friction spark of metallic material for coal mine

JB/T 6444-1992 General specifications for packaging of fans blowers compressors

JB/T 6445-1992 Overspeed test for industrial fan impeller

JB/T 6886-1993 Technical specification for draught fan application

JB/T 6887-1993 Technical condition of cast iron for fans blower and compressors

JB/T 6888-1983 Technical condition of cast steel used for fan blower and compressor

JB/T 6889-1993 Technical condition of cast iron for fans blower and compressors

JB/T 8689-1998 Fan vibration detection and its limited value

JB/T 9101-1999 Fan rotor balance

MT 113-1995 General Test Methods and Judgment Rules for Fire-resistant Antistatic Properties of Polymer Products for Coal Mines

3 Terms and definitions

For the purpose of this Standard, the following terms and definitions apply.

3.1 Press-in type auxiliary fans

Ventilating equipments are used for letting fresh air flow through the air duct under positive pressure into the working place.

3.2 Drawn-out type auxiliary fans

Ventilating equipments are used for letting the ventilation air of the working place discharged through the air duct extraction under negative pressure to the designated place.

3.3 Economic working area

Total pressure efficiency is no less than 90% of the fan maximum total pressure efficiency for fan working area.

3.4 Top clearance

The vertical distance between the top of mixed flow fan impeller blade and the housing

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