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(TENPES/JSA)

**Water conditioning for boiler feed  
water and boiler water**

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## Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by Thermal and Nuclear Power Engineering Society (TENPES)/Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law applicable to the case of revision by the provision of Article 14.

Consequently **JIS B 8223**:2006 is replaced with this Standard.

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# Water conditioning for boiler feed water and boiler water

## Introduction

This Japanese Industrial Standard was established in 1961 and has gone through six revisions up to the present. The last revision was made in 2006, and the revision at this time is to respond to the subsequent actual operation and the technology advancements of boiler water treatment.

No corresponding International Standard has been established at this point.

## 1 Scope

This Standard specifies the water conditioning of feed water and boiler water for land boilers and marine steam boilers.

## 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

JIS B 0126 *Glossary of terms for thermal power plants—Boilers and auxiliary equipment*

JIS B 0127 *Glossary of terms for thermal power plant—Steam turbines and auxiliary equipment of thermal and geothermal power plant*

JIS B 8224 *Boiler feed water and boiler water—Testing methods*

JIS K 0556 *Testing methods for determination of anions in highly purified water*

## 3 Terms and definitions

For the purpose of this Standard, the terms and definitions given in **JIS B 0126**, **JIS B 0127** and **JIS B 8224**, and the following apply.

### 3.1 normal operating pressure

maximum pressure in practical operation

### 3.2 evaporation rate of heating surface

amount of evaporation per hour in the unit area of evaporation [ $\text{kg}/(\text{m}^2 \cdot \text{h})$ ]

### 3.3 Terms for land boiler

#### 3.3.1 water tube boiler, circulation boiler

natural circulation or forced circulation boiler and once-through boiler of which the heating surface is made up of water tubes