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**Powered air purifying respirator for  
particulate matter**

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## Foreword

This Japanese Industrial Standard has been revised by the Minister of Health, Labour and Welfare and 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 Japan Safety Appliances Association (JSAA)/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 T 8157:2009** is replaced with this Standard.

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# Powered air purifying respirator for particulate matter

## 1 Scope

This Japanese Industrial Standard specifies the powered air purifying respirators for particulate matter (hereafter referred to as PAPRs) used at the workplaces and other locations under the environment that may cause harmful effects on a human body due to the inhalation of particulate substances floating in air (hereafter referred to as the dust and the like).

This Standard is basically applicable to the conditions in which an electric fan of PAPR operates normally. The facepiece-type PAPR assumes the continuous use as a filtering device in the case where an electric fan is stopped due to the battery exhaustion and the wearer needs to move to the safe place, or an electric fan is intentionally stopped by the reason of the work.

**WARNING 1** Do not use PAPR under the oxygen deficiency environment.

**WARNING 2** Do not use PAPR in a place where a toxic gas or vapour, or volatile mist exists.

**WARNING 3** Do not use PAPR under the environment in which an explosion may occur, unless it is proved as the explosion-proof electrical apparatus.

**WARNING 4** Select PAPR correctly based on the type and concentration of the dust and the like.

Criteria for the selection of suitable respiratory protective devices are specified in **JIS T 8150**.

## 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 C 1509-1 *Electroacoustics—Sound level meters—Part 1: Specifications*

JIS T 8001 *Glossary of terms for respiratory protective devices*

JIS T 8150 *Guidance for selection, use and maintenance of respiratory protective devices*

## 3 Terms and definitions

For the purpose of this Standard, the terms and definitions given in **JIS T 8001**, and the following apply.

### 3.1

#### **minimum necessary air volume**

minimum air volume specified in this Standard to be sent to the hood or a face shield of loose-fitting-type PAPR