

JIS

JAPANESE INDUSTRIAL STANDARD

Signs of Mine Safety

JISM 7001-1989

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Translated

by

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1. Scope

This Japanese Industrial Standard specifies signs of mine safety (hereafter referred to as the "signs") to be displayed in mine, out mine, etc., for securing mine safety.

Remarks: Specifications concerning the material, performance and test of signs, according to working and structural system of respective signs, shall be in accordance with JIS Z 9100, JIS Z 9105, JIS Z 9107, JIS Z 9108, JIS Z 9109, and JIS Z 9117.

2. Classification of Signs

Signs shall be classified as follows:

- (1) Fire prevention sign
- (2) Prohibition sign
- (3) Explosives and blasting sign
- (4) Danger sign
- (5) Caution sign
- (6) -Electric-shock caution sign

Applicable Standards:

JIS Z 9100-Phosphorescent Safety Sign Boards
JIS Z 9101-General Code of Safety Colours
JIS Z 9103-Safety Signs
JIS Z 9105-Retroreflective Safety Signs
JIS Z 9106-General Code of Fluorescent Safety Colour
JIS Z 9107-Safety Sign Boards
JIS Z 9108-Fluorescent Safety Signs
JIS Z 9109-Lantern-Type Safety Signs
JIS Z 9117-Retroreflective Sheeting and Tape for Safety

Reference Standard:

JIS Z 9104-General Rules of Coloured Light for Safety

- (7) Induction sign
- (8) Radioactivity sign
- (9) Other signs

3. Types of Signs

Types of signs shall be classified according to uses as follows:

- (1) Stationary sign
- (2) Portable sign

4. Designations and Working and Structural Systems of Signs

The designations and working and structural systems of signs shall be as given in Table.

Table. Working and Structural Systems of Signs

Designation of sign	Working and structural system	Remark
Class 1 sign	Ordinary working	Metal plate, synthetic resin plate, etc. (hereafter referred to as the "base plate") worked according to JIS Z 9107, as appropriate.
Class 2 sign	Fluorescent working	The base plate worked according to JIS Z 9108, as appropriate.
Class 3 sign	Reflection working	The base plate worked according to JIS Z 9105, as appropriate.
Class 4 sign	Phosphorescence working	The base plate worked according to JIS Z 9100, as appropriate.
Class 5 sign ⁽¹⁾	Internal lighting structure	The sign applied with JIS Z 9109.

Note ⁽¹⁾ This sign must not be used in the place having danger of explosion.

5. Dimensions

5.1 Stationary Signs Dimensions (length x width) of stationary signs shall be as given in Attached Table 1.

5.2 Portable Signs Dimensions (length x width) of portable signs shall be, as a rule, not less than 240 mm x 75 mm and in order to be convenient for display at required place, a hole of 4 mm in diameter may be drilled at middle upper part of signs (Refer to Attached Table 2).

6. Colour and Performance

6.1 Class 1 Sign The colour to be used for class 1 sign shall be in accordance with 3. of JIS Z 9101.

6.2 Class 2 Sign The colour of fluorescent paint and fluorescent film to be used for class 2 sign shall be in accordance with 3. of JIS Z 9106.

6.3 Class 3 Sign The performance of reflection sheet or tape colour to be used for class 3 sign shall be in accordance with grade 1 or grade 2 specified in 4. of JIS Z 9117.

6.4 Class 4 Sign The colour of phosphorescent part to be used for class 4 sign shall be in accordance with 4. of JIS Z 9100.

6.5 Class 5 Sign The performance of class 5 sign shall be in accordance with 4. of JIS Z 9109.

7. Example of Classification of Signs

Examples of colour, shape and characters according to class of signs shall be, as a rule, as specified in JIS Z 9103 and are shown in the following (Refer to Attached Tables 1 and 2).

(1) Fire Prevention Sign

Characters example: Fire extinguisher, flammable material, strict fire prohibition, smoke prohibition, fire hydrant, fats-and-oils storing place

(2) Prohibition Sign

Character example: Don't ride on a mine car, keep off, strict prohibition on opening off, prohibition on transmission of electrical energy, no passage, no running (during inspection)

(3) Explosive and Blasting Sign

Character example: Explosive, blasting, misfire

(4) Danger Sign

Character example: Gas, high voltage, during transmission of electrical energy, once stop

(5) Caution Sign

Character example: Caution to mine car, rope leaps, under construction, Watch your steps, caution to roof, during operation, gas projection warning zone, flood designation zone

(6) Electric Shock Caution Sign

Character example: Caution to electric shock, caution to electric wire

(7) Induction Sign

Character example:

- (a) In the case where the base is white and the rectangle is green

Special permission zone, first aid station, etc. (arrow mark is white, character is black)

- (b) In the case where the base is white and the rectangle is red

Fire prohibition zone (arrow mark is white, character is black)

- (c) In the case where the base is white

Pit mouth (arrow mark and characters are black)

- (8) Radioactivity Sign The radioactivity signs shall be in accordance with 5.7 of JIS Z 9103.

(9) Other Signs

Character example: Proper arrangement, cleaning, footway, evasion place, earthing plate embedding position

8. Caution Display

At display cautions care shall be taken to the following matters:

- (1) Cautions are to be displayed on the required places in the mine, out mine, etc. according to the specification of relating rules of "Mine Safety Law".
- (2) "Danger sign", "blasting sign", etc. are not to be displayed at excessively near place to dangerous portion.
- (3) At the dark place in mine, use class 2 sign or class 3 sign as far as possible.

Specialty, to the sign indicating the evasion place it is preferable to use class 3 sign and in a place having lighting such as repairing place in mine, to use class 4 sign.

- (4) Portable signs (for example, "blasting", "gas", etc.) are to be removed immediately after completion of using.
- (5) Always, stains due to adhering of powdery dusts and the like are to be wiped off and signs caused with rust, peeling off or discoloration are to be exchanged immediately.