

JIS

JAPANESE INDUSTRIAL STANDARD

Dimensions of solid tires for industrial vehicles

JIS D 6405—1990

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In the event of any doubt arising,
the original Standard in Japanese is to be final authority.

JAPANESE INDUSTRIAL STANDARD

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Dimensions of solid tires for
industrial vehicles

D 6405-1990

1. Scope

This Japanese Industrial Standard specifies the dimensions of solid tires made of rubber for industrial vehicles.

Remark: Applicable Standards to this Standard are shown in the following.

JIS D 4201 Designation System of Tire, Tube, Rim Band, and Flap for Automobiles

JIS D 6001 Fork Lift Trucks

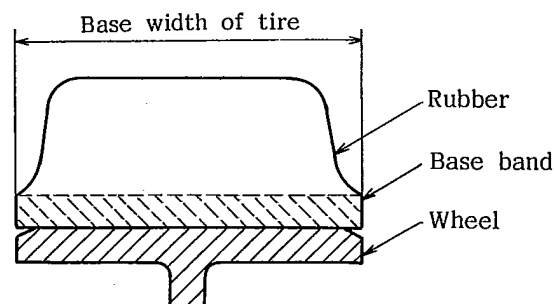
2. Definition

For the purposes of this Standard main definitions are as follows.

Further Figs. 1 to 3 show the outline figures.

- (1) press-on type solid tire A tire of which base band (cylindrical base made of metal) is adhered with rubber. This tire is used by press-in equipped with the wheel (Refer to Fig. 1).

Fig. 1. Sectional View of Press-on Type Solid Tire



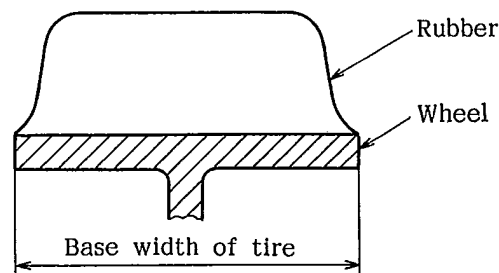
- (2) cure-on type solid tire A tire of adhered with rubber directly to wheel. The wheel and tire are integral and it is used as it is (Refer to Fig. 2).

Reference Standards:

JIS D 6401-Dimensions and Load Ratings of Tires for Industrial Vehicles and Off the Road Service

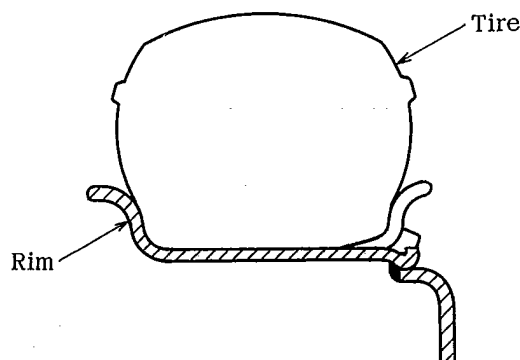
JIS D 6402-Contours of Rims for Industrial Vehicles and Off the Road Service

Fig. 2. Sectional View of Cure-on Type Solid Tire



- (3) pneumatic type solid tire The tire designed so as to be equipped with the assembled rim for pneumatic tire. The appearance and shape are resembled with the pneumatic tire and its inside part is manufactured as an integral structure with rubber, fibres, steel wire, etc. (Refer to Fig. 3).

Fig. 3. Sectional View of Pneumatic Type Solid Tire



Remark: The shape of rim indicates an example.

- (4) base width of tire In the case of press-on type solid tire, the width of base band (Refer to Fig. 1). In the case of cure-on solid tire, the width of wheel (Refer to Fig. 2).

3. Classification

Tires shall be classified according to the structure into following three types:

Press-on type solid tire ⁽¹⁾

Cure-on type solid tire

Pneumatic type solid tire

Note ⁽¹⁾ In the case of metric size, refer to Informative Reference.

4. Designation of Tire

Tires shall be designated as follows.

- (1) The designation of press-on type solid tire is in accordance with the style division E of Annex 1 of JIS D 4201, but expressed by integer or mixed fraction of unit of 25.4 mm (1 inch).

[Designation of outer diameter] x [designation of base width] x
[designation of wheel diameter]

Example: 16 x 5 x 10 1/2

- (2) The designation of cure-on type solid tire is in accordance with 4.2.2 of JIS D 4201 and expressed by integer of millimeter unit of 0 or 5 at end.

[Designation of outer diameter] x [designation of base width]

Example: 180 x 75

- (3) Designation of pneumatic type solid tire is in accordance with the style division either G or H of Annex 1 of JIS D 4201.

[Designation of section width] - [designation of rim
diameter]/[designation of rim width] SOLID

Examples 1. 6.00 - 9/4.00 SOLID

The above-mentioned designation is expressed by unit of 25.4 mm (1 inch).

2. 300 - 15/8.00 SOLID

The above-mentioned designation of section width is expressed by millimeter unit and the designations of rim diameter and rim width are expressed by unit of 25.4 mm (1 inch).

[Designation of outer diameter] x [designation of section width] -
[designation of rim diameter]/[designation of rim width] SOLID

3. 21 x 8 - 9/6.00 SOLID

The above-mentioned designation is expressed by unit of 25.4 mm (1 inch).

5. Dimensions

Dimensions shall be as follows.

- (1) The reference dimensions and permissible deviations relating to outer diameter, base width, and internal periphery ⁽²⁾ of press-on type solid tire and outer diameter of applied wheel are as shown in Tables 1 to 3.

Note ⁽²⁾ The internal periphery of base band.