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**Tyre - Vocabulary
(English Translation)**

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1 Scope

This document defines terminology used in the tyre industry, including general terms and tyre classifications, tyre parts and components, tyre tread patterns, rims, tyre sizes, tyre performance and testing, tyre marking, tyre appearance defects, tyre use, tyre retreading and repair terms and their definitions.

This document applies to passenger car tyre, light truck tyre, truck and bus tyre, earth-mover tyre, agricultural tyre, industrial tyre, motorcycle tyre, electric bicycle tyre, cycle tyre, aircraft tyre.

2 Normative references

This document has no normative references.

3 General terms

3.1

Tyre

A circular elastic product mounted on a wheel or machine wheel.

3.2

New tyre

Tyre that are neither used nor retreaded.

3.3

Grown tyre

Tyre whose rim size has expanded due to use.

3.4

Pneumatic tyre

The tyre, whose inner cavity of the tyre needs to be filled with compressed gas or liquid and can maintain the pressure.

Note: Divided into tube tyre and tubeless tyre.

3.5

Solid tyre

Cavity-less tyre that use materials with different properties to fill the tyre carcass.

3.6

Tubeless tyre

Pneumatic tyre that do not require an inner tube.

4.1 Classification by use

4.1.1

Normal tyre

Tyre designed for general use.

4.1.2

Special use tyre

Tyre designed mainly for use under off-road conditions, which can be used on mixed ordinary roads and off-roads, OR used under other special conditions.

Note: This type of tyre marking includes MPT (multi-purpose truck), ML (mining and logging), ET (extra tread), POR (professional off-road), MT (mud-terrain), RT (rugged- terrain), AT (all-terrain), etc.

4.1.3

Traction tyre

Tyre designed mainly for vehicle drive wheels, to maximize the transmission of vehicle power.

4.1.4

Professional off-road tyre

Tyre designed primarily for use in harsh off-road conditions.

Note: It is a kind of special purpose tyre.

4.1.5

Mud and snow tyre

The tyre, whose tyre pattern, tread compound, tyre structure are specially designed to provide better driving performance than ordinary tyre when driving in snowy, muddy or sandy areas.

4.1.6

Temporary-use spare tyre

The tyres, other than those installed on vehicles and used under specified driving conditions, are only used temporarily under limited driving conditions.

4.1.7

T-type temporary use spare tyre

The tyre, whose inflation pressure is higher than that of standard and reinforced tyre, is for temporary use only.

4.1.8

Snow tyre

Tyre which has specially designed tyre patterns, tread compounds or tyre structures that perform better than ordinary tyre, in terms of vehicle starting, handling and braking performance on icy and snowy roads or in cold conditions.

4.1.9

Ice tyre

Tyre which has specially designed tyre patterns, tread compounds or tyre structures that perform better than ordinary tyre, in terms of vehicle starting, handling and braking performance on icy road conditions.

Note: It is a kind of snow tyre.

4.1.10

Run flat tyre

Pneumatic tyres that are designed to travel under normal inflation conditions and can still travel a certain distance at a certain speed, under a lack of pressure condition.

4.1.11

Self-supporting run flat tyre

It is a pneumatic tyre, which is designed to be driven in a normal inflated state and can still travel a certain distance at a certain speed without any other accessories in a deflated state.

4.1.12

Internal support tyre

A tyre with supports in the inner cavity of the tyre.

4.2 Classification by structure

4.2.1

Structure type

Technical characteristics of tyre carcass.

Note: Including diagonal structure, bias-belted structure, radial structure, etc.

4.2.2

Diagonal tyre; bias-ply tyre

A pneumatic tyre in which the adjacent cords of the carcass ply and breaker intersect and are aligned at less than 90° with the tread centerline.

4.2.3

Bias-belted tyre; bias tyre

A pneumatic tyre in which the belt is composed of two or more layers of cord material that is basically inextensible, tightening the carcass ply in a bias structure.

4.2.4

Radial tyre

A pneumatic tyre in which the carcass ply cords are arranged at or close to 90° to the tread centerline and the belt is used to tighten the carcass.