



IS 15627 : 2005 Automotive vehicles– Pneumatic tyres for two and three-wheeled motor vehicles

Pneumatic tires for two- and three-wheeled motor vehicles are air-filled tires designed to provide traction, cushioning, and stability for motorcycles, scooters, and motorized tricycles. These **tires** enhance **safety, handling, and comfort** by absorbing road impacts and offering grip across various conditions.

Quality Parameters Expected by Consumers: Consumers expect these tires to meet several key quality criteria. **Tire size** must match the vehicle's specifications for proper fitment, while an appropriate **tread pattern** is crucial for **wet and dry traction**. **Load and speed ratings** must align with the vehicle's requirements, ensuring **stability** under maximum weight and high speeds. **Construction type** (bias or radial) impacts **performance and durability**, with radial tires often preferred for higher speeds. The choice between **tubeless and tube-type** affects **puncture resistance** and maintenance. Consumers also value **grip, cornering stability, and durability** for reliable long-term use.

How IS 15627 Addresses These Expectations: The **Indian Standard IS 15627** establishes comprehensive guidelines to ensure these quality parameters are met. It specifies **size and fitment standards** for proper compatibility and **tread pattern** requirements for effective traction and water dispersion. **Load and speed ratings** are standardized and tested to guarantee safe performance. The standard includes detailed **construction requirements** for bias and radial tires, and **tubeless and tube-type options**. It also enforces **durability tests** for tread wear, aging, and environmental resistance. IS 15627 mandates clear **marking of manufacture date and product specifications**, allowing consumers to verify key details. This standard ensures that **pneumatic tires** deliver the expected performance, **safety, and reliability** for two- and three-wheeled vehicles.

For a **pneumatic tyre** marked as **90/90-18 55J TT : 90/90-18**: Tyre size suitable for specific rim diameter and width, **55J**: Load index (218 kg capacity) and speed rating (100 km/h max), **TT**: Tube-type tyre.

Ministry of Commerce and Industry Quality Control Order mandates that all tyres sold, manufactured, or imported in India comply with IS 15627 : 2005 and display the BIS Standard Mark, ensuring high-quality, safe tyres for Indian roads

In summary, to ensure you select the best tire for your needs, remember to: Confirm tire size and compatibility, Choose the appropriate tread pattern for your riding conditions, Check load and speed ratings, Decide between bias or radial construction, and tubeless or tube-type, Evaluate durability, grip, and price based on your priorities and riding style.