

Indian Standard IS 2396:2017 – Quality Standards for Rubber Hoses in Fuel Dispensing

Rubber hoses and hose assemblies are essential components in **fuel dispensing systems**, used to safely transfer fuel from pumps to vehicles. The Indian Standard **IS 2396:2017** specifies the **quality requirements** and **testing methods** for **rubber hoses** designed specifically for **measured fuel dispensing** applications. These hoses must withstand the demanding conditions of fuel stations, such as **chemical exposure, pressure, and temperature variations**.

Users and manufacturers of **fuel dispensing hoses** expect high **durability, flexibility, and resistance to fuel chemicals** to prevent leaks, spills, and degradation. Key quality indicators include **pressure resistance, abrasion resistance, and resistance to fuel permeation**. Consumers also value **flexibility** for ease of use and **safety** features that prevent hose wear and reduce the risk of fire hazards due to fuel leakage.

The Indian Standard **IS 2396:2017** outlines strict **testing protocols** to ensure **durability, chemical resistance, and pressure handling** in rubber hoses and hose assemblies used for fuel dispensing. It includes guidelines for testing **abrasion resistance, flexibility, and fuel permeation resistance**, ensuring that hoses perform reliably under frequent use and exposure to fuel. By adhering to these requirements, IS 2396:2017 assures **fuel station operators and vehicle owners** of **safe, high-quality hoses** that prevent leaks and ensure efficient, risk-free fuel transfer in dispensing operations.