

IS 9573 (Part 1) : 2017 – A standard on what to look for when choosing a rubber hose for LPG for industrial applications.

A **hose** is a flexible hollow tube or pipe designed to carry fluids from one location to another. For carrying **Liquefied Petroleum Gas(LPG)** for industrial applications such as **LPG Bottling plants**, specially manufactured **rubber hoses** are used. These rubber hoses are **wire or textile reinforced** and are suitable for a **maximum** ambient temperature of 65 degree Celsius and a maximum working pressure of 2.5 MPa.

LPG is a highly **flammable** gas and is generally stored in compressed state in **high pressure** vessels, making their handling a very **risky** endeavor. All the materials used in its handling should be of a **standardized** quality to ensure **safety** of people involved. Specifically, for industrial applications, it becomes all the more necessary to have products involved in storing and transportation of LPG to be of **high quality** and uniform characteristics. And this is where the **IS 9573 (Part 1) : 2017- Rubber Hose for Liquefied Petroleum Gas(LPG) – Specification Part 1 Industrial Application** comes in.

The Indian Standard **IS 9573 (Part 1) : 2017- Rubber Hose for Liquefied Petroleum Gas(LPG) – Specification Part 1 Industrial Application** published by BIS prescribes the material requirements(for lining, reinforcement and cover), dimensions and tolerances, physical properties of lining and cover compounds(such as tensile properties, accelerated ageing and resistance of lining to n-pentane) and performance requirements(such as adhesion, low temperature flexibility, flexibility of hose, ozone resistance, hydraulic requirements, electrical continuity and burning behavior).

The standard also prescribes packing & marking clauses and sampling guidelines and criteria for the conformity of the lot/batch to the IS 9573 Part 1: 2017.

The tests prescribed in the IS 9573 Part 1: 2017 ensure a high quality product for safe use in industrial applications.

Considering the safety aspects in the product application, the **DPIIT** now mandates that the **Rubber Hose for Liquefied Petroleum Gas(LPG) for Industrial Application** sold, manufactured, or imported in India shall comply with the **IS 9573 (Part 1) : 2017** ensuring that only a **safe, standardized and quality** product reaches you.