

IS 447 : 1988 Rubber Hose For Welding — Specification

A rubber hose for welding is a specialized flexible rubber tube consisting of a **lining, reinforcement** and a **cover**. It is designed to transport gases (such as oxygen and acetylene) used in welding applications. These hoses are essential for gas welding where controlled delivery of gas is critical for safe and effective operation.

Rubber hose for welding is expected to be **durable, flexible, and heat-resistant**, capable of withstanding tough conditions like abrasion and high pressure. It should be leak proof and compatible with welding equipment. It should come in multiple sizes for versatility and should meet industry safety standards.

Indian standard IS 447:1988 specifies the requirements, method of sampling and test for rubber hose for welding. Compliance with IS 447:1988 ensures that rubber hoses for welding are safe, reliable, and effective for their intended applications.

Indian standard for Rubber hose for welding covers both the woven and braided constructions. Physical requirements specified in the standard such as **tensile strength** and **accelerated ageing** which ensure durability and flexibility of the hose. Performance requirements such as **hydrostatic test pressure, burst pressure test** and **adhesion between components** are specified in the standard to ensure structural integrity of the rubber hose. The standard also specifies dimensional requirements for **nominal bore size** and **minimum thickness** of lining and cover.

The standard aims to minimize hazards associated with welding operations by ensuring that the materials used can withstand the specific demands of the environment.

This standard is important for manufacturers and users of welding hoses to maintain safety and efficiency in welding operations.