

**IS 444 : 2017 Rubber hoses, textile - Reinforced, for general - Purpose water applications
- Specification (*Fifth Revision*)**

IS 444, which specifies requirements for **rubber hoses with textile reinforcement** for general-purpose water applications, is important to users due to its focus on ensuring the **durability, safety, and efficiency** of hoses used in a wide range of applications, from household to industrial use.

Safety is critical in applications where hoses are used to transport water, particularly if hoses are used around people or sensitive equipment. IS 444 ensures that hoses meet specific safety and performance requirements given in Table 3 like, Burst Pressure, Ozone Resistance and Flexibility, and pressure tolerance, ensuring that hoses can withstand prolonged use without failure. This is particularly important for users who need hoses for outdoor or industrial use, where exposure to the elements is common. Thereby, reducing the risk of hose failures that could lead to accidents, equipment damage, or injury.

The users benefit from increased reliability as the hoses are designed to handle general water applications without issues like cracking, leaking, or bursting under normal pressure.

IS 444 ensures the hoses manufactured meeting the requirement of the standard are safe and reliable through, controls on material quality of rubber compounds through requirements like Tensile Strength, Elongation and Resistance to Ageing as given in Table 2,

The users don't need to search for different standards for each use case; instead, they can rely on IS 444 compliant hoses for various purposes, simplifying purchasing decisions.

In essence, **IS 444** is important because it ensures that rubber hoses with textile reinforcement are durable, safe, compatible, and cost-effective for general-purpose water applications. Users can expect higher reliability, reduced maintenance needs, and better overall value from hoses that meet this standard, making it a key factor in choosing the right hose for both residential and industrial applications.