



## **IS 17803:2022 - Potable Water Bottles (Copper, Stainless Steel, Aluminium)**

Potable water bottles are made from materials like copper, stainless steel, and aluminium. They are essential for consumers seeking safe, reusable, and eco-friendly alternatives to single-use plastics. These bottles are designed to store and carry drinking water conveniently, promoting health and sustainability.

Potable water bottles are expected to be durable, safe, and easy to clean, ensuring that water remains fresh and uncontaminated. Key quality parameters include material purity, resistance to corrosion, and the absence of harmful substances that could leach into the water. Additional expectations include leak-proof designs, sturdy construction, and bottles that retain their appearance and functionality over time.

The Indian Standard IS 17803:2022 ensures that these expectations are met by establishing stringent guidelines for quality and safety. This standard specifies the requirements for the materials used — whether copper, stainless steel, or aluminium — to guarantee they are non-toxic, food-grade, and resistant to corrosion. It also outlines criteria for construction, ensuring bottles are robust, seamless, and capable of withstanding daily use without deforming or leaking.

IS 17803:2022 includes testing procedures to verify that these bottles do not impart any unwanted taste, odour, or harmful contaminants to the water. The standard also addresses ease of cleaning, ensuring designs minimize the buildup of bacteria or residues. By adhering to these guidelines, manufacturers can produce bottles that are not only safe but also meet consumer expectations for durability, hygiene, and overall quality.

In summary, IS 17803:2022 provides consumers with the assurance that their potable water bottles meet high standards of safety, quality, and reliability, making them a trustworthy choice for everyday hydration needs.