



INDIAN STANDARD IS 13428: 2024 – PACKAGED NATURAL MINERAL WATER

The Indian Standard IS 13428:2024 sets out essential guidelines for packaged natural mineral water, which is sourced from underground water resources and rich in essential minerals like calcium, magnesium, and potassium. Mineral water is valued for its purity and health benefits, making it a popular choice among consumers looking for a safe and natural source of hydration.

Consumers expect certain **quality parameters** when purchasing mineral water. Primarily, they seek **assurance of purity**, ensuring that the water is **free from harmful contaminants such as bacteria, chemicals, and heavy metals**. Consumers also expect the water to maintain its natural mineral composition **without artificial additives or preservatives**, preserving the health benefits and taste unique to natural mineral water. Additionally, the **packaging** should be **leak-proof, durable, and safe for consumption**, preventing any risk of contamination during storage and transportation.

The IS 13428:2024 standard effectively addresses these consumer expectations by setting stringent requirements and has **more than Sixty Five parameters** for quality assessment in packaged natural mineral water. This standard specifies the permissible levels and method of test using latest technologies for various microbiological (**E. Coli and coliform, Sulphite reducing microbes, Pseudomonas** etc), chemical (**TDS, Bromates, nitrates, petrochemical toxicants, Heavy metals** such as **Arsenic, uranium, pesticide residues** etc) and radiological contaminants (**alpha and beta emitters**), ensuring that the water is safe for human consumption. It mandates that natural mineral water should retain its mineral composition **without any chemical treatment or RO processing**, thereby preserving its natural properties. The standard also includes **guidelines for safe and hygienic packaging**, ensuring that the container material does not compromise the water's quality or safety. To further instil consumer confidence, IS 13428:2024 requires manufacturers to undergo regular testing and quality audits, ensuring consistent product quality.

In conclusion, Indian Standard IS 13428:2024 upholds the expectations of Indian consumers by ensuring that packaged natural mineral water is pure, naturally mineral-rich, and safe to consume, thereby promoting healthier choices in daily life.