



Indian Standard IS 17370 : 2023 *p*-Xylene — Specification

p-Xylene, a critical industrial chemical, is a colourless liquid known for its high purity and specific applications, particularly in the production of **polyethylene terephthalate (PET)**, which is used in plastic bottles and synthetic fibres.

This standard emphasizes strict criteria for **purity** (99.7% minimum) and limits impurities such as m-Xylene, o-Xylene, sulphur, toluene, and ethylbenzene, ensuring that only high-quality p-Xylene meets these standards. The document specifies detailed testing methodologies to maintain **quality**, including gas chromatography for assessing purity and impurities, and ultraviolet fluorescence for detecting sulphur content. Strict visual appearance tests confirm the product's clarity and freedom from particulate contamination.

Packaging guidelines require robust containers, such as metal or glass, for small quantities, and tankers for bulk transport, all marked with product details, batch numbers, and manufacturing information. For handling, the standard mandates secure packaging in either **metallic or glass containers** for small amounts or in bulk tankers for larger quantities. Labels must include essential details like the product name, manufacturer, batch number, and weight. Safety measures highlight **p-Xylene's** flammable and hazardous nature, advising appropriate ventilation and precautionary labelling.

This high level of standardization benefits consumers by ensuring a consistent, high-quality product that is safe for handling and industrial applications. The strict quality requirements and testing protocols mitigate risks associated with p-Xylene's flammable and toxic nature, adding value by promoting safe and effective usage.

In conclusion, **IS 17370:2023** ensures that **p-Xylene** manufactured or used in India adheres to stringent quality standards, supporting safety, efficacy, and consumer protection in its various industrial applications.