IS 1993: 2018/ ISO 11949- Reduced Tinmill Products —Electrolytic Tinplate

Electrolytic tinplate is a thin, low-carbon steel sheet coated with a layer of tin through an electrolytic process. This tin coating provides excellent corrosion resistance, making the tinplate suitable for packaging food, beverages, and other goods requiring high hygiene standards. The tinplate is valued for its durability, malleability, and ability to be lacquered or printed, enhancing both functionality and appearance for packaging. Electrolytic tinplate is typically available in two types: single-reduced and double-reduced, with different thicknesses and strengths to meet diverse industry needs.

This standard specifies the requirements for **cold-reduced tin mill** products, particularly electrolytic tinplate. It outlines specifications for single and double cold-reduced tinplate used in the packaging industry, particularly for food containers, beverages, and other applications where **hygiene and corrosion resistance** are critical.

The standard covers important aspects such as **thickness**, **coating mass**, **surface finish**, and mechanical properties like **hardness** and **tensile strength**. It also includes guidelines for testing, packaging, marking, and handling. Manufacturers must ensure that the products comply with safety and quality standards to maintain food safety when used in food packaging.

This version aligns with international norms, particularly ISO 11949:2016, and aims to **standardize the quality of tinplate products** used in various industrial applications.