# Summary on IS 17404: 2020 (Electrogalvanized Hot Rolled and Cold Reduced Carbon Steel Sheets and Strips)

IS 17404: 2020 is an Indian Standard specification that provides quality and testing requirements for electrogalvanized hot-rolled and cold-reduced carbon steel sheets and strips coated with zinc by electrolytic process. Electrogalvanization is a process where a layer of zinc is coated on steel sheets or strips using an electrolytic method. This coating enhances the steel's resistance to corrosion, making it ideal for various applications where durability and protection against rust are essential. Electrogalvanized steel sheets and strips are widely used in the automotive, appliance, and construction industries for parts such as body panels, household appliances, and building structures.

The standard outlines key quality parameters that consumers expect in electrogalvanized steel products, focusing on aspects such as coating thickness, uniformity, adhesion, mechanical properties (including tensile strength and ductility), and dimensional accuracy. Testing for coating thickness and adhesion is crucial as these factors determine the durability and protective ability of the electrogalvanized layer. Additionally, mechanical tests ensure that the steel maintains its strength and formability, meeting performance requirements in various industrial applications.

IS 17404: 2020 addresses these consumer expectations by specifying stringent testing methods and limits on the chemical composition of the steel and zinc coating. It includes detailed guidelines for measuring coating thickness and adhesion to ensure a uniform and robust zinc layer that enhances corrosion resistance. Mechanical tests verify that the steel meets strength and flexibility standards, essential for shaping and forming processes. The standard also covers surface quality checks to detect any imperfections that could affect performance or appearance. Through these measures, IS 17404: 2020 ensures that electrogalvanized steel sheets and strips are reliable, durable, and suitable for demanding applications where corrosion resistance and material integrity are critical.