

Brief Summary of IS 648:2022; Cold Rolled Non Oriented Electrical Steel Sheet and Strip-Fully processed type-Specification

Cold Rolled Non Oriented Electrical Steel are Steel sheet/strip having substantially the same magnetic and electrical characteristics in all direction of the plane of the sheet. which is used in the manufacture of electric motors, transformers, and other electrical equipment requiring efficient magnetic properties.

This standard was first published in 1955 and subsequently revised in 1962, 1970, 1980, 1994 2006 and 2022.

This standard covers the requirement for non-oriented electrical steel with silicon content up to 3.5 percent, cold rolled, both insulated and uninsulated, fully processed electrical steel and strip primarily intended for static and rotating machines operating at power frequencies.

IS 648:2022 sets the framework for the production and quality control of the product, ensuring that it meets the stringent requirements needed for efficient, reliable electrical equipment. The standard covers various aspects from chemical composition to magnetic properties including the surface condition, ensuring that manufacturers produce materials that deliver high performance in energy conversion devices.