

Brief Summary of IS 4409:2023; Ferronickel- Specification

IS 4409:2023 deals with the **specifications and requirements for ferronickel**, particularly in relation to its use in the production of stainless steel and other alloys. Ferronickel is an important intermediate product in the production of stainless steel and is primarily used in the **steel industry** due to its high nickel content, which enhances the corrosion resistance and strength of steel.

The Standard was published in 1967 and was first revised in 1973 and then 2023.

Ferronickel is a master alloy of iron and nickel with a minimum nickel content of 15.0 percent by mass and a maximum nickel content of 80.0 percent by mass, obtained from oxide ores or other nickel bearing materials.

The standard includes detailed specifications for different grades with the maximum permissible concentrations of all elements including impurities like Sulphur, Phosphorus and Chromium, as they can affect the material's properties and its suitability for use in steel production.

The standards provides complete information about the forms of delivery and formation of lots.