

Summary of IS 4409:2023

Ferronickel- Specification

Ferronickel is an **alloy** composed primarily of **iron and nickel**, typically containing around 15-80% nickel by weight. It is produced through the **smelting** of nickel ores, often laterite ores, in a high-temperature furnace.

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.

IS 4409 outlines the Grade designation for Ferronickel and **chemical composition** (like the maximum permissible **levels of elements** such as **sulfur, phosphorus, carbon**, and others). The standard also provides **guidelines for the sampling and testing procedures** to verify the alloy's chemical composition and quality, conditions for **packaging and labeling of ferronickel**, ensuring that it reaches the end user in the appropriate condition, with the necessary details such as the grade, quantity, and manufacturer's details. For the benefit of the purchaser standard is emphasizing about the **ordering information**.