

Abstract:

JFE Steel has developed two types of high silicon steel sheets suitable for high frequency applications,

3.2 Magnetic Gradient High Si Steel Sheet, JNHF-Core

Gradient function materials, which are characterized by a continuous change in composition in the thickness direction, have been developed mainly in the fields of heat-resistant and thermoelectrical materials. The authors discovered that electrical steel sheets having an Si content distribution (gradient) in the sheet thickness direction display unique magnetic properties, and carried out research and development focusing on this fact.

