



ANNEX – F (Informative)

Magnetic Properties for Austenitic Stainless Steels

All austenitic stainless steel fasteners are normally non-magnetic; after cold working, some magnetic properties may be evident.

Each material is characterized by its ability to be magnetised, which applies even to stainless steel. Only a vacuum will probably be entirely non-magnetic. The measure of the material's permeability in a magnetic field is the permeability value μ_r for that material in relation to vacuum. The material has low permeability if μ_r becomes close to 1.

Examples:

A2: $\mu_r \approx 1.8$

A4: $\mu_r \approx 1.015$

A4L: $\mu_r \approx 1.005$

F1: $\mu_r \approx 5$