

## **Royal Industrial Suppliers**

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## ANNEX – F (Informative)

## Magnetic Properties for Austentic Stainless Steels

All austentic 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  $\mu_r$  for that material in relation to vacuum. The material has low permeability if  $\mu_r$  becomes close to 1.

## **Examples:**

A2:  $\mu_r \approx 1.8$ 

A4:  $\mu_r \approx 1.015$ 

A4L:  $\mu_r \approx 1.005$ 

F1:  $\mu_r \approx 5$