



Corrosion Inhibitors

A corrosion inhibitor is a substance which reduces the corrosion of a metal, when it is added to the corrosive environment.

Types of Inhibitors

1. Anodic Inhibitors
2. Cathodic Inhibitors
3. Vapour Phase Inhibitors

Anodic Inhibitors

Anodic Inhibitors are those that prevent the corrosion reaction, occurring at the anode, by forming an insoluble compound with the newly produced metal ions.

Examples: Chromates, phosphates

Cathodic Inhibitors

Cathodic Inhibitors are those that prevent the corrosion reaction, occurring at the cathode.

Examples: Organic Inhibitors

Vapour Phase Inhibitors (VPI)

Vapour Phase Inhibitors (VPI) are organic inhibitors which readily vapourise and form a protective layer on the metal surface. VPI are used in the protection of storage containers, packing materials, etc.

Examples: Dicyclohexylammonium nitrate, benzotriazole etc