

Different Types of Corrosion

- Recognition, Mechanisms & Prevention

Fretting Corrosion

Recognition of Fretting Corrosion

What is fretting corrosion? Fretting corrosion refers to the deterioration at the interface between contacting surfaces as the result of corrosion and slight oscillatory slip between the two surfaces.

Fretting corrosion are expected in many tight-fitting parts that are designed not to slip against each other, but in the presence of vibration and pressure fluctuation, these parts do slip against each other such as bolted or riveted parts that vibrate.

Mechanisms of Fretting Corrosion

What causes fretting corrosion?

Fretting corrosion is a severe corrosive wear that occurs to heavily loaded surfaces that move only slightly but repeatedly against each other. Fretting corrosion is different from ordinary wear in that it occurs rapidly with little movement.

Prevention of Fretting Corrosion

How to prevent fretting corrosion? Fretting Corrosion can be prevented through:

- Lubricate the surfaces
- Regularly inspect and maintain the lubrication

For more details on Fretting Corrosion

More details on fretting corrosion are included in the following corrosion courses which you can take as in-house training courses, course-on-demand, online courses or distance learning courses:

- Corrosion and Its Prevention (5-day module)
- Corrosion, Metallurgy, Failure Analysis and Prevention (5 days)
- Marine Corrosion, Causes and Prevention (2 days)
- Materials Selection and Corrosion (5 days)
- Stainless Steels and Alloys: Why They Resist Corrosion and How They Fail (2 days)

If you require corrosion expert witness or corrosion consulting service on fretting corrosion, our NACE certified Corrosion Specialist is able to help. Contact us for a quote.