

# Different Types of Corrosion

- Recognition, Mechanisms & Prevention

## Impingement Corrosion

### Recognition of Impingement Corrosion

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**What is Impingement Corrosion?** Impingement corrosion is a form of erosion-corrosion generally associated with the local impingement of a high velocity, flowing fluid against a solid surface.



Impingement corrosion usually produces a pattern of localized attack with directional features.

### Mechanisms of Impingement Corrosion

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The mechanism of impingement is similar to that of erosion-corrosion, as flow removes the protective films responsible for the corrosion resistance of the material.

Other damage mechanisms related to Impingement Corrosion include:

Flow accelerated corrosion (FAC)

Cavitation Damage

Erosion corrosion

### Prevention of Impingement Corrosion

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How to prevent Cavitation Damage?

In general, cavitation damage can be prevented by the techniques used in preventing erosion corrosion. Also, there are some specific measures. Cavitation damage can be reduced by changing design to minimize hydrodynamic pressure differences in process flow streams.

## **For more details on Impingement Corrosion**

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More details on Impingement 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:

A Basic Course in Corrosion and Its Prevention (5-day module)

Corrosion, Metallurgy, Failure Analysis and Prevention (5 days)

Methods and Materials for Corrosion Control and Prevention (5 days)

API RP 571 Damage Mechanisms Affecting Fixed Equipment in the Refining and Petrochemical Industries (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 Cavitation Corrosion, Cavitation Damage, and Cavitation Erosion, our NACE certified Corrosion Specialist is able to help. Contact us for a quote.