FASTENERFACTS

Corrosion Factors

Atmospheric Environments:

Contaminants, humidity, wind or water currents, pH level, and temperature are all elements of atmospheric environments that should be considered in the design and selection of fastener product.

Water Environments:

Water environments are divided into natural (fresh) water and seawater (salt) type environments. The factors that determine the corrosivity of water environments include water composition, salinity, pH level, temperature, water velocity, and biological organisms.

Soil Environments:

Factors contributing to the corrosivity of soil includes soil particle size, water, aeration, pH level, temperature, salt content, and biological activity.

Forms of Corrosion Affecting Fasteners

- Uniform Corrosion
- Galvanic Corrosion
- Pitting Corrosion
- Fretting Fatigue
- Stress Corrosion
- Corrosion Fatigue
- Erosion Corrosion

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