



**What Is Marine Corrosion?**

Marine corrosion is the natural breakdown of metal when exposed to water. Any vessel operating in salt, fresh, or brackish water is at risk, and without proper protection, essential parts such as propellers, rudders, hulls, and stern gear can suffer severe damage.

**How Can You Prevent It?**

The best defense against marine corrosion is cathodic protection, which involves using sacrificial anodes – specialized metal pieces that corrode in place of critical boat parts. Martyr anodes provide high-quality superior corrosion protection while protecting marine ecosystems. Made of zinc, aluminum, or magnesium, sacrificial anodes are designed to corrode instead of more valuable components. They are strategically placed on the hull, rudder, propeller shaft, and other vulnerable areas. When correctly installed, sacrificial anodes take on the brunt of corrosion, protecting the rest of your boat. If the battle against corrosion is ignored, overtime, this can lead to expensive repairs, structural damage, performance issues, and potential equipment failure while on the water.

**Are All Anodes Alike?**

If you choose the wrong alloy for your water type – or install poor-quality anodes – you could be left completely unprotected, even if it looks like everything is in place. You might not even realize it until it's too late. Martyr anodes are engineered to match specific environments – freshwater, saltwater, or brackish – and are tested to perform under real marine conditions. If moving between water types, inspect and replace anodes as needed.

**How Often Should I Replace Anodes?**

Anodes should be replaced when they are 50% worn down or at least once a year, depending on water conditions and usage. Regular inspections will help ensure they remain effective.

Anodes are sold individually or in kits related to certain engine makes and models.

ALUMINUM
<ul style="list-style-type: none"> <li>• For use in salt &amp; brackish water</li> <li>• Proven to last longer than zinc due to increased capacity</li> <li>• Aluminum works effectively in varying salinity and resists passivation</li> <li>• Alloy is manufactured to meet or exceed US Military Specification (MIL-A-24779(SH))</li> </ul>

MAGNESIUM
<ul style="list-style-type: none"> <li>• Only for use in fresh water</li> <li>• Magnesium has a higher driving voltage, ensuring proper protection in low conductivity fresh water</li> <li>• Not recommended for use in salt or brackish water</li> <li>• The only alloy proven to protect your boat in fresh water</li> </ul>

ZINC
<ul style="list-style-type: none"> <li>• Zinc provides stable, long lasting protection in saltwater</li> <li>• Not recommended for use in fresh water</li> <li>• Alloy is manufactured to meet or exceed US Military Specification (MIL-A-18001K)</li> </ul>

