



Maddox Anode Suitability Guide

CONFIRMING MADDOX SUITABILITY

Vessel construction: Composite (fibreglass, carbon) & timber

SUITABILITY GUIDE:



Maddox Anodes will only protect harder (more noble) metals like:

- Stainless steel (304, 316, duplex)
- Bronze (Nibral & Naval)
- Copper
- Limited quanity mild steel (timber vessel with Steel shoe / rudder that is well coated)
- · Salt and brackish water



Maddox Anodes will not protect

- · Aluminium hulls, fittings or fixtures
- · Gross mild steel structures and hulls
- Will not protect in fresh water

Maddox Anodes create a more neutral effect around the metals it is protecting, resulting from a lower drive potential. It is essential that the bonding system is in excellent condition to ensure appropriate protection is achieved.

BONDING SYSTEM:



Shall have no more than 10hm resistance between a bonded article and the anode.



Use marine grade-fine strand tinned copper cable (min 6mm², but recommended 10mm² to prevent voltage drop).



Connections be using stainless steel lugs with waterproof heatshrink.



Connections maintained & protected with MPS Conductive Grease.



Confirm health of bonding system annually at a minimum.

See Guide to Bonding

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ANODE COMPATABILITY:



All Anodes on the same bonding system must be the same anode material. For example zinc & Maddox linked together will not work, the zinc will be used & the Maddox will not.



Separate cathodic protection systems are possible to ensure the material is being protected by the correct anode.

Example:

- Sterndrive Zinc or aluminium anodes locally
- Stainless Steel Swimplatform/trim tabs/through hull fittings protected with Maddox Anodes

ENSURE NO COMMON CONNECTIONS / ELECTRICALLY ISOLATED



Hydraulic Thrusters or Thrusters bonded to Cathodic Protection System

SIGNS MADDOX IS WORKING:



White, fluffy material with some small bubbles.



Some mild marine growth attachment.

SIGNS MADDOX IS NOT WORKING:



No change, looks new, no bubbles.

Action = Check continuity to anode bolts. Check bonding system continuity to anode.



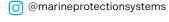
If high resistance: Re-seat anode; clean studs with wire brush, apply MPS Conductive Grease liberally to studs & re-install

Action = Improve bonding. Confirm compatability.



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CORROSION CONTROL THAT WORKS