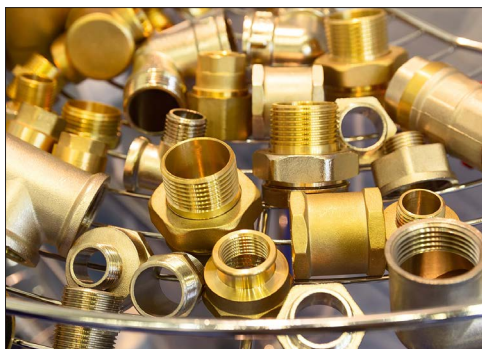


NEWS ALERT



Don't Overlook Your Yellow Metals! Important Additives for Formulators

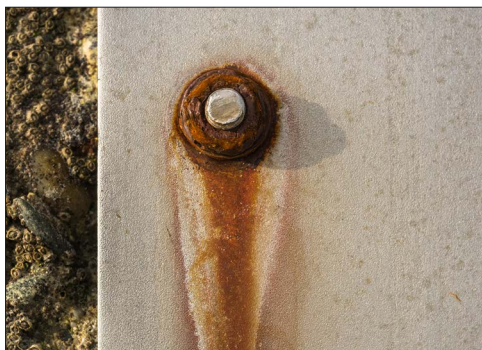


Yellow metals such as bronze, copper, and brass are often overlooked in the quest for corrosion protection because they do not corrode as easily as less noble metals such as steel and zinc. However, that does not mean they are irrelevant or immune to corrosion. [Cortec®](#) reminds formulators why selecting corrosion inhibiting additives such as [M-235](#) and [M-236](#) for yellow metals can be an important piece to solving the corrosion puzzle.

Why Worry About Yellow Metals?

It is important to pay attention to yellow metals for three reasons:

- 1) Some corrosion inhibitors for steel are harmful to yellow metals.
- 2) Galvanic corrosion can shift the corrosion attack from a yellow metal to a less noble metal when dissimilar metals are together in harsh conditions.
- 3) Certain environments are harsh enough to corrode yellow metals themselves.



How Can I Protect Yellow Metals?

Formulators of cleaners, metalworking fluids, water treatments, and protective coatings that will be used in contact with yellow metals can turn to M-235, a powder additive. This extremely versatile corrosion inhibitor forms a complex with copper oxides or yellow metal ions to create an extremely stable physical and electrochemical film barrier against corrosion. M-235 is soluble in both water and glycol and can be used in a variety of applications:

- Direct treatment of copper/brass sheets/coils
- Flash corrosion protection in strong alkali or acid cleaners



Keywords: yellow metals, corrosion on yellow metals, brass corrosion, copper corrosion, bronze corrosion, corrosion in cooling towers, flash corrosion, corrosion in hydraulic fluids, Cortec, corrosion inhibitor additives

Cortec® Corporation is the global leader in innovative, environmentally responsible VpCI® and MCI® corrosion control technologies for the Packaging, Metalworking, Construction, Electronics, Water Treatment, Oil & Gas, and other industries. Headquartered in St. Paul, Minnesota, Cortec® manufactures over 400 products distributed worldwide. ISO 9001 and ISO 14001 certified.





- Water treatment in circulating cooling towers or air conditioning systems
- Protective wax or lacquer coatings for metal
- Corrosion protection in hydraulic or metalworking fluids

For oil- or solvent-based applications, formulators may use M-236, a liquid additive. This corrosion inhibitor can be added to transformer oil to protect yellow metals without changing the oil's electrical properties. It also protects in the presence of H_2S , SO_2 , and high temperatures.

Don't Forget Your Yellow Metals!

It is great to focus on rust prevention for ferrous metals—but not to the neglect of yellow metals. Make sure the yellow component is covered by considering M-235 or M-236 for your next water treatment, hydraulic fluid, cleaner, or oil! [Contact Cortec® for further advice on selecting the appropriate yellow metal corrosion inhibitor for your next formula.](#)