PRODUCT DESCRIPTION
M-235 is a proven corrosion inhibitor for copper, copper-based alloys and other yellow metals. M-235 functions by reacting with surface copper oxides to form a strong, insoluble polymeric complex. This complex creates a thin layer or film on metal surfaces that provides both a mechanical and electrochemical barrier against corrosive attack. This protective layer has a high degree of thermal and oxidative stability and cannot be easily removed. M-235 complexes yellow metal ions in solution, thereby preventing galvanic corrosion of other metals in contact with copper. M-235 has solubility in some water and organic systems.

SUGGESTED USES
M-235 can be used in many applications for protection of yellow metals.

- Direct treatment on rolled copper or brass sheets and coils
- Circulating cooling systems such as cooling towers and air conditioning systems
- Functional fluids such as hydraulic fluids, specialty lubricants, automotive coolants and metalworking fluids
- Wrapping paper and box board for wrapping, interleaving, shipping and storing copper and brass items
- Corrosion protective coatings such as lacquers and waxes
- Cleaners such as soaps, detergents and strong alkali or acid cleaners
- Fabricated products made from copper and brass
- Artifacts, sculptures and decoration items

DOSAGE
M-235 has an almost neutral pH when incorporated into liquids at a concentration between 0.1 and 2.0%. Liquids may be either aqueous or non-aqueous. It may also be used as a solid or vapor. For a specific recommendation please contact a Cortec representative.

TYPICAL PROPERTIES
Appearance	White to off-white powder
Assay	98-100%
Melting Point	94º-99ºC (201º-210°F)
Solubility, wt. %, 25°C:
- Water	1.98
- 60ºC	7.4
- Methanol	71.6
- Methoxy-2-Propanol	55.0
- Isopropanol	53.9
- Heptanol	34.6
- Ethylene Glycol	150.7
- Polyethylene Glycol	47.7
- Methyl Ethyl Ketone	46.1
- Benzene	1.3
- Tetrachloroethylene	0.06
- White Mineral Oil* 0.1
- Turbine Oil* 0.01

*Petroleum oil formulations containing polar additives, such as tricresyl phosphate and alkylbenzenesulfonic acid derivatives, will increase the apparent solubility.

PACKAGING
M-235 is available in 5 pound (2.3 kg), 50 pound (23 kg), 100 pound (45 kg) fiber drums and bulk.
All statements, technical information and recommendations contained herein are based on tests Cortec Corporation believes to be reliable, but the accuracy or completeness thereof is not guaranteed. Cortec Corporation warrants Cortec® products will be free from defects when shipped to customer. Cortec Corporation's obligation under this warranty shall be limited to replacement of product that proves to be defective. To obtain replacement product under this warranty, the customer must notify Cortec Corporation of the claimed defect within six months after shipment of product to customer. All freight charges for replacement products shall be paid by customer.

Cortec Corporation shall have no liability for any injury, loss or damage arising out of the use of or the inability to use the products. BEFORE USING, USER SHALL DETERMINE THE SUITABILITY OF THE PRODUCT FOR ITS INTENDED USE, AND USER ASSUMES ALL RISK AND LIABILITY WHATSOEVER IN CONNECTION THEREWITH. No representation or recommendation not contained herein shall have any force or effect unless in a written document signed by an officer of Cortec Corporation.

THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE. IN NO CASE SHALL CORTEC CORPORATION BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.