

Description



Uniwrap MPI VCI Chips are a 30-point chipboard, saturated two sides with Daubert Cromwell's multi-metal volatile corrosion inhibitor (VCI) formulation. VCI Chips are designed to protect exposed ferrous/non-ferrous metal combinations including cadmium and zinc galvanized steel inside enclosed spaces such as boxes, cabinets, cases, envelopes, or enclosed machinery and assemblies.

The protective VCI molecules volatilize inside enclosed containers to form an invisible layer on the surface of metal and prevent moisture, dirt, oxygen, and other contaminants from depositing on the metal surface and causing corrosion.

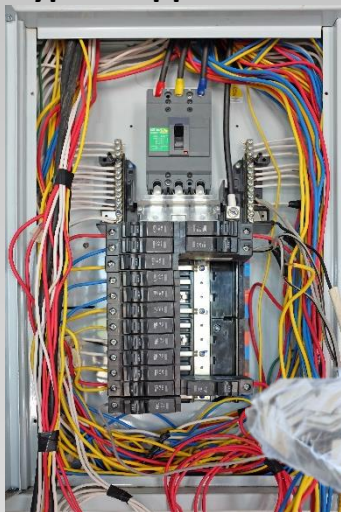
Features



Proven Daubert Cromwell corrosion inhibitor chemistry

- Metals protected: Ferrous and non-ferrous metal combinations
- Protects even in the presence of moisture
- Lightweight, economic, odorless, non-toxic, recyclable
- Provides corrosion protection for 24 months minimum, inside dry storage
- Safe, easy to use; no special handling required
- Parts remain clean, dry and ready to use immediately
- RoHS and REACH compliant, OEM approved
- Compatible with Daubert Cromwell rust preventive liquids, papers, foams and emitters
- Provides long-term corrosion protection
- Standard in 1"x 1" and 2"x 2" sizes (custom sizes available)
 - 1"x 1" (2.5 x 2.5 cm) chip protects 25 cu.in. (.41L)
 - 2"x 2" (5 x 5 cm) chip protects 100 cu.in. (1.639L)

Typical Applications



- Exposed metals in containers, pallets and boxes
- Electrical equipment, telecom equipment
- Steel closures
- Components, sub-assemblies, and finished machines
- Tool cabinets
- Engine compartments
- Control panels
- Mechanical controls
- Alarm cabinets

Guidelines for use:

Packaging personnel should always wear gloves while handling metal parts. Parts should be clean and free of fingerprints before wrapping.

Package clean products as quickly as possible. Use 1 square inch (6.45 cm²)

Uniwrap MPI VCI Chip for each cu. ft. (0.028m³) of void space, using as many chips as needed for the size of the cabinet, crate or box.

Technical Data

UNIWRAP® MPI VCI Emitter Chips

Physical Data

Typical Properties		Typical Values	ASTM Test No.	
Basis Weight, lb/3000 ft ² (g/m ²)		328 (534)	T-410	
Mullen Burst, psi (kPa)		103 (710)	T-403	
Caliper, inch (cm)		0.03 (0.07)	T-411	
	<i>Machine Direction</i>	<i>Transverse Direction</i>		
Tear Resistance, gf (N/ply)		1052 (10.32)	456 (4.47)	T-414
Tensile Strength, lbs/in (kN/m)		100+ (17.5+)	39 (6.83)	T-404
Elongation %		Did not break	3.4	T-494
Protection Time				
Chips properly used are classified as 24 months protection in a dry, enclosed atmosphere				
Metal		Level of Protection		
Mild Carbon Steel & Cast Iron		Provides full protection in contact and vapor phase		
Aluminum		Passive; test for compatibility		
Zinc & Zinc Galvanized Steel		Provides full protection in contact and vapor phases		
Copper		Provides full protection in contact and vapor phases		
Brass ¹		Provides full protection in contact and vapor phases		
Bronze		Provides full protection in contact and vapor phases		
Silver		May protect; test for compatibility		
Category A ²		Provides full protection in contact and vapor phases		
Category B ³		May protect; test for compatibility		

1. Brass alloys in the "red" area containing up to 20% zinc will act like copper; brass in the "white" area containing over 20% zinc and will act like Category A metals.
2. Category A metals include zinc, cadmium, nickel, cadmium-plated steel, and nickel-plated steel. These are prone to contact corrosion sensitivity with inhibitor chemicals, but will be protected as shown in the vapor phase.
3. Category B metals include lead, antimony, babbitt alloys, solder, magnesium or magnesium alloys.

Storage

Store sealed, in unopened boxes in a cool, dry place until ready to use. Keep out of direct sunlight in temperatures not to exceed 150°F (65°C).

Shelf Life

24 months from date of shipping, when stored in the original, shipping container used by Daubert Cromwell and not in high humidity and not at high temperatures, or stored outside.

Removal

Not applicable

Approvals

RoHS, Recyclable, OEM Approved, TRGS 615, TL8135



WARRANTY The data, statements and recommendations in this product specification sheet are based on testing, research and other development work, which has been carefully conducted by us, and we believe such data, statements and recommendations will serve as reliable guidelines. Physical properties shown above represent typical values and are not intended for use in writing specifications. However, this product is subject to numerous uses under varying conditions over which we have no control, and accordingly, we do NOT warrant that this product is suitable for any particular use. Users are advised to test the product in advance to make certain it is suitable for their particular production conditions and use. All products manufactured by us are warranted to be first class material and free from defects in material and

workmanship. Liability under this warranty is limited to the net purchase price of any such products proven defective or, at our option, to the repair or replacement of said products upon their return to us transportation prepaid. All claims on defective products must be made in writing within 30 days after the receipt of such products in your plant and prior to further processing or combining with other material and products. We make no warranty, express or implied, as to the suitability of any of our products for any particular use, and we shall not be subject to liability from any damages resulting from their use in operations not under our direct control. This warranty is exclusive of all other warranties, express or implied, and no representative of ours or any other person is authorized to assume for us any other liability in connection with the sale of our products.

JAB MAY 2021

**DAUBERT
CROMWELL**

12701 S. Ridgeway Ave | Alsip, IL 60803 USA | (800) 535-3535
Tel +1 (708) 293-7750 | E-mail: info@daubertcromwell.com | www.daubertcromwell.com

