Product Data

# UNIWRAP® UW60MPI

## Corrosion Inhibitor VCI Paper

## Description



Uniwrap MPI (UW60MPI) is a 60 lb/ream (98 g/m²) natural kraft saturated with Daubert Cromwell's proprietary multi-metal volatile corrosion inhibitor (VCI) formulation. UW60MPI is designed for general protection of ferrous/non-ferrous metal combinations, including cadmium and zinc galvanized steel, without need for surface-applied oils or rust preventive liquids.

UW60MPI has corrosion inhibitors on both sides and 6-language print on one side to identify it as valuable packaging for metals. Also available with wax coating for molding around small parts, reinforced constructions for extra tear and puncture resistance, and poly coated for moisture resistance.

## Features



***Proven Daubert Cromwell corrosion inhibitor chemistry***

- Metals protected: Mild carbon steel, cast iron, zinc and zinc galvanized, copper, nickel-plated steel, brass and bronze.
- Safe and easy to use; no special handling required
- No heavy metals, chromates, phosphates, or secondary amines
- Replaces oil, grease, and traditional corrosion prevention methods
- Parts remain clean, dry and ready to use immediately
- RoHS compliant
- Fully recyclable and repulpable.
- Compatible with Daubert Cromwell rust preventive liquids, emitters and films.

## Typical Applications





***For transport, export, storage of :***

- Fabricated metal components and assemblies
- Engines and large machinery
- Frames, stampings, doors,
- Bearings, gears, valves, pistons
- Brake parts, automotive parts

To use, wrap or layer clean parts in UW60MPI paper. Place within 12” (200-300mm) of the metal. The corrosion inhibitors form a protective molecular layer on the surface of the metal. When the parts are unwrapped, the protective layer immediately begins to dissipate. Parts are clean, corrosion-free and ready to use. No further processing is necessary prior to use.

**Uniwrap® Product Family**

| Product | Basis Weight | Construction | Description | Protection |
|---|---|---|---|---|
| UW30MPI | 30 lb ream /49 g/m² | Natural kraft | General protection | Multi-metal |
| UW33MPI | 35 lb ream/ 57 g/m² | Wax-coated kraft | Wax-coated kraft | Multi-metal |
| UW35MPI | 35 lb ream/57 g/m² | Natural kraft | General protection | Multi-metal |
| UW40MPI | 40 lb ream/65 g/m² | Natural kraft | General protection | Multi-metal |
| *UW60MPI* | *60 lb ream/98 g/m²* | *Natural kraft* | *General protection* | *Multi-metal* |
| UW200 | 35 lb ream/57 g/m² | Natural kraft | Nitrite-free | Multi-metal |
| UW94MPI Woven | 40 lb ream/65 g/m² | Poly laminated to woven fabric for strength | Heavy duty, strong, moisture-resistant | Multi-metal |
| PC50MPI Scrim | 50 lb ream/80 g/m² | Poly laminated to tri-directional scrim | High strength, moisture resistant, durable | Multi-metal |

DAUBERT CROMWELL
The Leading Name in Corrosion Prevention®

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# Technical Data

# UNIWRAP® UW60MPI

## Corrosion Inhibitor VCI Paper

## Physical Data

| Physical Properties | | Typical Values | | |
|---|---|---|---|---|
| **Property** | **Units** | **Typical Value** | | **Test Method** |
| Finished Weight | lb/ream (g/m²) | 66 (107) | | T-410 |
| Caliper | mil (µm) | 5.2 (132) | | T-411 |
| Mullen Burst | psi (kPa) | 58 (400) | | T-403 |
| | | ***Machine Direction*** | ***Cross Direction*** | |
| Elmendorf Tear | g/ply (N/ply) | 90 (0.88) | 103 (1.01) | T-414 |
| Tensile Strength | lb/in (kN/m) | 41 (7.18) | 20 (3.50) | T-404 |

| Protection Time | |
|---|---|
| Inside Dry Storage | 24 Months (min) |

| Metal | Protection |
|---|---|
| Mild Carbon Steel and Cast Iron | Provides full protection in contact and vapor phases |
| Aluminum | Passive; Test for compatibility |
| Zinc and 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

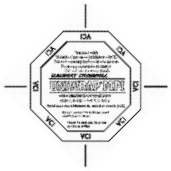
Store in a cool, dry place, away from direct sunlight. Do not store outdoors, in high humidity, or at high temperatures.

## Shelf Life

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

## Approvals

RoHS, OEM Approved



**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.

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