



PRODUCT DATA

CORROSION MANAGEMENT SOLUTIONS

ARMOR VAULT™ SYSTEM

FORTRESS FOIL™

FEATURES AND BENEFITS

ARMOR FORTRESS Foil™ is an advanced, long-term rust prevention solution that provides 15+ years of protection for metal parts. Constructed from durable MIL-PRF-131K foil material, **FORTRESS Foil** acts as a powerful barrier, blocking moisture, air, and contaminants—the primary causes of rust and corrosion—to keep metal parts rust-free over an extended period of time.

Unlike traditional rust prevention paper and poly films that use vapor corrosion inhibitors (VCI) to combat corrosion, **FORTRESS Foil** protects with its superior barrier properties alone. Made from heavy-duty, heat-sealable foil, it forms a near-impermeable shield with moisture resistance 360 times greater than a standard 4 mil single-layer poly film. Not only does **FORTRESS Foil** block environmental factors from reaching metal surfaces, but its flexible yet durable construction provides exceptional tear and puncture resistance, keeping metal parts of all shapes and sizes clean and corrosion-free for more than 15 years.

PRODUCT OVERVIEW

Armor Protective Packaging's FORTRESS Foil (MIL-PRF-131K) is a heavy-duty, foil-based moisture barrier laminate that offers exceptional protection for metal parts, components, machinery, and equipment against moisture vapor and oxygen. Engineered for flexibility, this advanced material is both heat-sealable and resistant to water vapor, ensuring effective corrosion protection of metal parts even in harsh conditions. FORTRESS Foil also features outstanding tear and puncture resistance, providing superior barrier properties to protect metal parts of various sizes from corrosion, moisture damage, oxidation, and contaminants during storage and shipping.

ABOUT ARMOR

Armor Protective Packaging offers rust prevention and rust removal products that are clean, safe, easy, and that protect metals while in-process, in transport, or in storage. ARMOR combines its VCI (vapor corrosion inhibitor) Nanotechnology™ with packaging materials such as paper and poly film to create products that displace moisture on metal and guard against rust. ARMOR also offers desiccants, emitters, foam pads and its Metal Rescue® Rust Remover Bath and Dry Coat™ Rust Preventative. For more than 45 years, ARMOR has worked with customers from around the globe to provide rust prevention and rust removal solutions and to Take the Work Out of Your Workday!



You won't find a customer service team on this earth more excited to talk about rust, so give our corrosion needs a call with your questions and make their day.

800.365.1117



ARMOR VAULT™ SYSTEM FORTRESS FOIL™

FORTRESS Foil (MIL-PRF-131K, Class 1, 5 mil) is a heavy-duty, foil-based moisture barrier laminate designed to protect ferrous and non-ferrous metals. It provides exceptional tear and puncture resistance and is designed for the long-term storage of metals.

CONFORMS TO:

- MIL-PRF-131K

LENGTH OF PROTECTION & LONG-TERM STORAGE

ARMOR FORTRESS FOIL is a heavy-duty, foil-based moisture barrier laminate that is used to cover or wrap metal parts and surfaces. It solely provides a barrier that blocks moisture, air, and contaminants to protect metal parts from corrosion. FORTRESS Foil will protect metal parts for 15+ years of corrosion-free storage when used and sealed properly in normal warehouse conditions. However, by following the guidelines below, it is possible to lengthen this time-frame considerably. The key element in protecting parts for long-term storage is ensuring that the metal parts are completely clean and dry before wrapping them in ARMOR products. We recommend that parts be fully wrapped or enclosed in packaging for the best results and longest protection time.

ARMOR cannot control variable conditions such as temperature and humidity extremes, airflow, production and process methods, surface conditions of metal to be protected, customer employee training and other factors beyond our control, therefore it is impossible to guarantee a specific length of protection. Additionally, if warehouse conditions are expected to be severe (i.e. over 90° F and 75% RH) for any length of time, other methods of rust preventatives such as ARMOR VCI products, Dry Coat™ Rust Preventative, or desiccants, may be needed, in conjunction with foil packaging. Successful long-term storage requires that all of these guidelines be met. It is important to test parts and packaging as extensively as possible, prior to conducting any long-term storage projects.

GUIDELINES FOR SUCCESSFUL LONG-TERM STORAGE

- It is necessary to wear gloves when coming in contact with metal, as fingerprints (which contain human oils and possibly contaminants) can cause a chemical reaction to the metal prior to wrapping in ARMOR packaging. Make sure that gloves are clean and as they become dirty or contaminated, be sure to replace them with a new supply.
- Be sure your product is free of fingerprints, machining oils and acid or alkali residue. Make sure that coolants, RP liquids and or other liquids used within the manufacturing process are tested regularly for concentration levels, pH, and are fully titrated regularly.
- Parts should be dry, clean and free from corrosion before packaging. Clean your product, preferably with a petroleum solvent or solvent emulsion cleaner.

ARMOR VAULT™ SYSTEM FORTRESS FOIL™

GUIDELINES FOR SUCCESSFUL LONG-TERM STORAGE continued

- Parts should be dry, clean and free from corrosion before packaging. Clean your product, preferably with a petroleum solvent or solvent emulsion cleaner.
- Package clean parts immediately after processing, manufacturing or cleaning.
- Make sure that the packaging is not ripped or torn.
- Store packaged metal parts in an area where the temperature and relative humidity are the most consistent possible. Do not store parts outside.
- While the parts are sitting in bins waiting to be repackaged or further processed, ARMOR packaging should be closed/folded over to protect parts from exposure to liquids, water, and moisture. A sheet of VCI paper can also be used by placing it on top, covering parts. Make sure that associates are using clean, dry gloves while packing parts.
- Pine, oak and corrugated are very acidic and can contribute greatly to corrosion issues. Avoid contact of metal with woods by placing ARMOR POLY between these materials.
- Train employees who are responsible for packaging or processing metal parts on how to use protective packaging to ensure these specialized rust-prevention products are used properly.

• PROPERTIES

MIL-PRF-131K, Class 1, 5 mil

Wash hands thoroughly after handling ARMOR packaging materials and before eating.

All products manufactured Armor Protective Packaging® are warranted to be first class products and free from defects in material and workmanship. Liability under this warranty is limited to the net purchase price of any of 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 30 days after the receipt of such products in your plant and prior to further processing or combining with other materials and products. We make no warranty, express or implied, as to the suitability of any of our product 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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