



# MilCorr® Fire Retardant VpCI® Shrink Film: Unbeatable Corrosion Protection for Harshest Environmental Conditions



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Billions of dollars in assets are lost every year by the military due to corrosion. Many factors are considered when evaluating corrosion prevention as it is necessary to maintain a corrosion control and prevention strategy that is efficient yet economical. Over the years, various methods of corrosion prevention have been adopted by the military. New strategies are continually being developed and evaluated for effective corrosion control. Utilizing VpCI technology has shown to be one of the most effective methods throughout the years. Cortec offers another corrosion prevention solution to its professional MilCorr line of products used by military personnel globally. This heavy-duty film with superior mechanical properties features Cortec's multi-metal Vapor phase Corrosion Inhibitors, flame retardant additives, and UV (Ultra Violet) inhibitors. It is successfully used not only for military, but also for preservation of other various types of industrial equipment (Figs. 1 and 2). MilCorr FR VpCI Shrink Film provides a top-notch universal protection system to maintain the integrity of the film itself, as well as the parts packaged within. It reduces costs of protection and extends asset life. MilCorr FR VpCI Shrink Film, in conjunction with other Cortec products, provides a total turnkey preservation for long term outdoor storage. With MilCorr products, preservation costs may be decreased 40-60% according to well documented data for deep storage and preservation of military vehicles and equipment (Figs. 3 and 4). Savings of millions of dollars in hazardous waste generation is also a part of this data. This safe, multi-functional film can replace conventional rust preventatives, such as oils and desiccants, while extending equipment life. Parts protected with MilCorr FR VpCI Shrink Film are ready to use with no additional cleaning or degreasing necessary, saving customer's time and money by eliminating extra processing steps.



Figures 1 and 2 - Equipment, pipes, flanges, and units wrapped in MilCorr VpCI Shrink Film.

Metal parts packaged in MilCorr FR VpCI Shrink Film receive continuous multi-metal, contact, barrier, and vapor-phase protection against salt air and humid environments, moisture, aggressive industrial atmospheres, and dissimilar metal corrosion. The VpCI vaporizes and condenses on all metal

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Figures 3 and 4 - Examples of military vehicles packed with MilCorr FR VpCI Shrink Film.

surfaces within the enclosed space and diffuses to every area of your part; protecting its exterior as well as void spaces and recessed areas. Complete product storage protection as well as during domestic and overseas shipments is provided (Fig. 5), eliminating any rust claims and allowing immediate use of protected object upon removal. MilCorr FR VpCI Shrink Film conforms to military specification MIL-B-22019D, NACE Standards RP0487-2000, and TMO-2008. It passes NFPA 701-2010 "Fire Test for Flame Propagation of Textiles and Films", Test #2-Flat Sheet Specimens.

Typical applications are:

- Military vehicles and equipment preservation
- Mothball preservation of industrial equipment
- Export packaging of expensive larger equipment
- Heavy equipment covers

- Recreational vehicle preservation (boats, snowmobiles, etc.)
- Pallet shrouds.

Militaries and their contractors are increasingly testing, identifying, and approving VpCI products as a successful means of protection. Corrosion prevention, being the ultimate goal, is not enough in this day and age. The safety of military personnel, environment, elimination of hazardous waste disposal and labor costs make VpCI technology number one choice for the military industry. The efficiency and ease of application along with the benefit of non-removal makes Cortec's VpCI technology the most desirable corrosion protection solution available today.

For further information: [www.cortecpackaging.com](http://www.cortecpackaging.com)



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Figure 5 - A heat gun is used to complete the shrink-wrapping process during preservation.