



ARMOR WOVEN™

Frequently Asked Questions

How does the ARMOR WOVEN work?

The ARMOR WOVEN protects ferrous and non-ferrous metals from rust when used as an enclosed container. WOVEN is a coated polypropylene fabric infused with ARMOR's proprietary VCI Nanotechnology®, which releases vapor corrosion inhibitors (VCI) to form a protective molecular layer on metal surfaces. The woven fabric improves strength and durability compared to standard films.

What is the proper application method for the WOVEN?

ARMOR WOVEN is designed for applications where normal films or papers might tear or break during shipping and storage. For optimal performance, metal parts must be contained or enclosed within the WOVEN material. Wrap the metal item in the WOVEN, limit air flow as much as possible, and keep the container sealed as securely as possible. WOVEN will start working immediately, filling the enclosed space with VCI.

Does the WOVEN require any special handling precautions?

The WOVEN is free of nitrites, silicones, phosphates, and complies with REACH and other global standards. As supplied, the WOVEN is safe to handle, but wearing gloves is recommended. Gloves help protect metal and metal parts from moisture, acids, and oils found on hands that can cause or speed up rust formation.

Which metals will the WOVEN protect?

Recommended for both ferrous and non-ferrous metals, including steel, iron, copper, brass, aluminum, and nickel. Magnesium alloys and galvanized metals should be evaluated in the usual method of handling as there are many variations of these metals. If WOVEN will be in direct contact with metal, testing is recommended as it may cause discoloration.

What is the length of protection of the WOVEN?

ARMOR WOVEN's protection duration depends on the GSM coating weight. Each customer must identify their specific GSM requirement and use case before determining the protection

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length. Factors such as airflow exposure before use, the conditions of the container space, its size, and how often it is opened can reduce the WOVEN's length of protection time.

Can I combine the WOVEN with other rust preventatives?

Yes, the WOVEN can be used in combination with other ARMOR products such as ARMOR WRAP® VCI paper or ARMOR POLY® VCI film to further enhance both barrier protection and VCI protection of metal/metal parts.

When metal/metal parts are removed from the WOVEN environment, do they need any special treatment or cleaning?

The WOVEN provides clean, dry metal protection — no cleaning, wiping, or degreasing of metal parts is necessary. When metal is removed from the container, ARMOR's VCI protective layer immediately starts to dissipate — VCI does not interfere with the operation of electrical or mechanical components.

How do I dispose of ARMOR WOVEN?

WOVEN is fully recyclable, offering a sustainable and effective rust-prevention solution. Recycle the material in standard PP streams using the recycling code 05. Contact your local recycling facility for capabilities or reach out to an ARMOR team member for further information about our recycling partners.

How do I store ARMOR WOVEN?

ARMOR packages the WOVEN in a sealed package to maintain its efficacy. Proper storage of the WOVEN is essential for maximizing both its shelf life and effectiveness. Store ARMOR WOVEN inside an airtight, protective container to prevent water vapor contamination during transport, temporary storage, and final use.

How is ARMOR WOVEN packed for shipment?

The material is ordered by the roll. Each roll is wrapped in film and sealed with core plugs at the ends. The cores on the rolls are 3 inches in diameter. If multiple rolls are on a pallet, they will come with cradles and be banded and wrapped.

Can you seal ARMOR WOVEN like polyethylene films?

No, you cannot seal the ARMOR WOVEN material like PE films. It does not seal in the same way, especially when using equipment rated for PE films.

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Can I use ARMOR WOVEN like I have been using my ARMOR POLY films?

All the best practices for wrapping a part in film still apply to ARMOR WOVEN, but the use cases are usually different. ARMOR WOVEN should be used in situations where the ARMOR POLY is tearing or ripping during use or transportation. New procedures may be necessary to properly wrap the ARMOR WOVEN compared to how the ARMOR POLY was sealed. Overall, the application is similar, but the use cases differ.

How much stronger is ARMOR WOVEN compared to standard PE films?

These materials are not measured using the same test methods, so technically, no direct comparison can be made. These numbers are only meant to help determine the use case of a material and should not be used for any warranty purposes. Each customer should do a review of their own materials from any vendor. ARMOR's goal is only trying to help conceptualize the difference between the two materials. A close comparison would suggest that the ARMOR WOVEN will be about 5-7x stronger in tensile strength and 5-10x stronger in tear resistance compared to a PE film of the same thickness.

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