VCI MATERIALS

VCI materials are the safest and most cost-effective method to preserve metal artifacts from potential damage caused by rust and corrosion during shipping and storage. When an item is placed inside the packaging, Volatile Corrosion Inhibitors (VCI) molecules are released into the enclosed air volume and deposited onto the surface of the metal to be protected, forming a protective molecular film that ensures long-lasting protection both in contact and at a distance. The coating envelops the metal surface and prevents oxidation or corrosion. VCI molecules migrate to reach even recesses, providing protection to even the most complex shapes up to a maximum distance of 30 cm from the metal being protected. After opening the package, VCI volatilizes without leaving residues on the metal surface, allowing for immediate use without any washing procedures. It is crucial that metal surfaces are thoroughly clean, perfectly dry, and free from any corrosion. Any residues from production or washing processes may negatively impact the anti-corrosive protection. Moreover, it is essential to avoid introducing moisture or condensation during the activation phase: to achieve this, temperature fluctuations should be avoided, and it is important not to pack cold pieces in a warm environment or vice versa. Everything should always occur at room temperature. Another fundamental aspect is the care with which the products are handled: they should always be handled with gloves, as the acidity of the skin could cause oxidation of the metal parts. The anti-corrosion packaging must tightly adhere to the metal, forming a sealed space even in the presence of loose pieces (in this case, it is advisable to use VCI material interleaving). The last precaution is to close the packaging properly: it must always be tightly sealed, using tapes and sealants to prevent the infiltration of dirt and moisture that could damage the protected pieces.

Usage Recommendations:

- Pack dry and clean items
- Pack items at room temperature
- Handle with clean hands and use protective gloves
- Use VCI material interleaving

Features:

- Anti-corrosion protection, eco-friendly, recyclable
- Safe product, non-toxic, nitrite-free
- Compliant with TL 8135-0043 standard
- Compliant with RoHS, TRGS 615 and REACH regulations









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