



Green Packaging, Inc.

Anti-Corrosion Packaging Solutions

14 ESSENTIAL PROCEDURES TO PREVENT CORROSION ON METAL PARTS



1. Keep your cleaning solutions and metalworking fluids clean to reduce or eliminate small metal particles which are sometimes referred to as "dirt" or "swarf." Swarf deposited on the part and not properly washed away can form a galvanic corrosion cell and rust will occur underneath the swarf.
2. Be sure to maintain cleaning solutions with a pH of at least 9.0 to protect ferrous metals from corrosion.
3. For non-ferrous metal parts such as brass and bronze, a pH of 7-7.5 should be maintained.
4. If you are using water in your cutting or cleaning fluids, switch to deionized or distilled water.
5. Place parts in a wire basket to dry vibrator y action or forced air can dry parts more quickly.
6. Do not stack parts on top of each other until completely dry. Parts can corrode when stacked one on top of the other or when contacting each other in tote bins. This is caused by the fluid acting as an electrolyte and forming a galvanic cell between the two parts.
7. Keep metal parts away from industrial air contaminants such as exhaust from lift trucks.
8. Keep metal parts away from heat treat areas, as by-products from heat treating are corrosive to metal.
9. Keep temperature in manufacturing and shipping areas constant. Every 10° C increase in temperature can double the corrosion rate.
10. Keep relative humidity in manufacturing and shipping areas constant and as low as possible. Fluctuations in humidity and temperature can cause condensation and accelerate corrosion.
11. Packaging personnel should always wear gloves while handling metal parts because chlorides and acids present on human hands.
12. Parts should be clean and free of fingerprints before packaging.
13. Be sure that metal parts do not come in direct contact with wood pallets, corrugated boxes or untreated paper.
14. Package metal parts immediately in Green Packaging, Inc. VCI paper or VCI poly bag to keep parts corrosion-free for years.

Call us today Toll-Free 1-855-4-NO-RUST

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