



ARMOR SUCCESS STORY

Customer: Linamar Group of Companies

Type of industry: Automotive components and assemblies, motor vehicle parts and accessories

Problem: Linamar had over three thousand parts that needed to be completely de-rusted due to some manufacturing issues. Use of acid, a previous rust removal technique they had used, is hazardous and brings many other expenses to bear including personal protection clothing, gloves, goggles, as well as all the Health and Safety issues that it includes.

Metal-Part(s) Involved: Motor vehicle parts were made of powder metal and had a fine machined finish. It was very important that the method of rust removal did not harm this surface in any way.

Solution: Linamar has long relied on Armor Protective Packaging for other rust preventative products so they called ARMOR and a technical service rep visited them within one day. First, ARMOR diagnosed the problem and found that parts presented small spots of red rust (hydrated oxide - $\text{Fe}_2\text{O}_3 \cdot \text{H}_2\text{O}$) which is typically promoted by contaminants (salt) due to exposure to a very corrosive environment. A test was conducted at the Linamar plant to prove that Metal Rescue™ in fact could effectively remove corrosion per their requirements. Results were excellent –after 30 minutes of treatment – the rust was removed successfully with no side effects to the surface of the part itself. The Linamar plant went on to implement it with good success.

Cost Savings: Approximate cost to scrap part (\$16.00/part) Linamar de-rusted 3,000 parts for a total savings of at least \$ 48,000 USD.

ARMOR Product(s): Metal Rescue™

ARMOR Rep: Fernando Longinotti

