



ARMOR SUCCESS STORY

Customer: GKN Sinter Metals

Type of industry: Advanced Powder Metal Gears

Problem: GKN shipped auto parts to Chrysler Mexico and was experiencing severe rust issues due to the amount of water contained inside the powder metal while parts were manufactured. Several parts rusted even before shipping. While gears made from powder metallurgy offer significant cost savings and improved physical properties when compared with gears produced by casting and machining, they present different challenges, two of them being moisture, and porosity. Both factors promote corrosion significantly.

Metal-Part(s) Involved: Ferrous materials, including iron, steel, low-alloy steels, and sinter-hardened steels. Powder metallurgy transmission gears.

Solution: GKN asked ARMOR for help, and they were pleased seeing how Metal Rescue™ safely removes rust from their P/M parts. This plant produces motor vehicle parts and accessories and safety was an important aspect in choosing a rust remover. Since Metal Rescue™ is a water-based product and has no harmful vapors, it was chosen as our method of rust removal. Metal Rescue™ did a fantastic job of removing the rust.

Cost Savings: GKN has been derusting approximately 300 parts/month. Parts average at least \$15/part
Yearly savings: \$ 54,000 /year.

ARMOR Product(s): Metal Rescue™

ARMOR Rep: Fernando Longinotti

