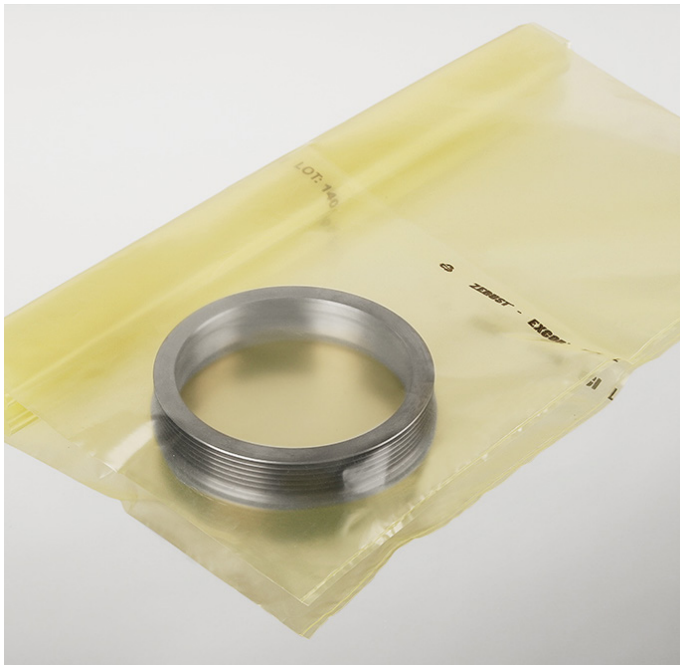


ZERUST®  **EXCOR®**

REDUCING YOUR VCI PACKAGING CARBON FOOTPRINT



ZERUST® is a product of
Northern Technologies
International Corporation



WHY CHOOSE ZERUST®?

COMMITMENT TO THE ENVIRONMENT

At ZERUST®, we are committed to creating a more sustainable future. We convert environmentally beneficial materials into value-added products and services for industrial and consumer applications. Our research and development teams deliver innovative technologies and products that address climate change, use renewable materials, and enable sustainable waste management. We do this while maintaining the highest performance and processability.



ENVIRONMENTAL BENEFITS OF ZERUST® PRODUCTS



- **Reduced Need for Hazardous Materials:** ZERUST®'s VCI products often replace more hazardous rust-prevention methods, like oil and solvent-based coatings, which can be harmful to the environment.
- **Longer Lifespan of Metals:** By effectively preventing rust and corrosion, ZERUST® products extend the lifespan of metals. This reduces the need for frequent replacements, thereby lowering the demand for new metal production, which is a process that often involves significant environmental impact.
- **Less Waste:** The ZeCycle Recycling Program ensures that used ZERUST® VCI films and LDPE packaging are collected, recycled, and repurposed into post-consumer recycled (PCR) materials, significantly reducing landfill use and environmental harm. Combined with the longer lifespan of metal components protected by ZERUST® products, this approach minimizes scrap metal and waste, advancing waste reduction efforts.
- **Energy Conservation:** By protecting metals against corrosion, ZERUST® can help maintain the efficiency of mechanical systems and structures. Efficient systems consume less energy, contributing to reduced carbon emissions.
- **Safe for People and Environment:** ZERUST® formulations are typically designed to be non-toxic and safe for both people and the environment, making them a preferable option over more hazardous rust-prevention chemicals.
- **Recyclability:** ZERUST® VCI Poly and VCI Paper products are recyclable, which further aids in waste reduction. Additionally, the ZeCycle Recycling Program transforms used film materials into PCR pellets. By participating in this closed-loop system, customers utilizing VCI Poly products contribute to waste reduction, resource conservation, and promoting a circular economy.
- **Low VOC Emissions:** Many ZERUST® liquid products have low volatile organic compound (VOC) emissions, which is beneficial for air quality and reduces harmful atmospheric pollutants.
- **Carbon Footprint Reduction:** Through the ZeCycle Recycling Program, ZERUST® incorporates PCR materials into our VCI films, further reducing reliance on virgin plastics and lowering carbon emissions. This initiative, paired with our use of recycled resins from consumer and industrial sources, underscores our dedication to sustainability and supports our commitment to environmental responsibility.

POST-CONSUMER RECYCLING

LEADING THE WAY IN SUSTAINABLE VCI PACKAGING WITH POST-CONSUMER RECYCLING

In a world where environmental consciousness is on the rise, companies are increasingly seeking innovative ways to reduce their carbon footprint and promote sustainability. One such approach that's gaining traction is post-consumer recycling, and here at ZERUST®, we're at the forefront of implementing this technology across our Vapor Corrosion Inhibitor (VCI) polymer packaging solutions. Furthermore, ZERUST® has taken its commitment to sustainability a step further by partnering with RecycleMax® to launch the ZeCycle Recycling Program—a groundbreaking closed-loop recycling initiative that enables customers to recycle used ZERUST® VCI films and plain poly packaging into new ZERUST® ICT®510-PCR film products. With this program, ZERUST® is helping businesses protect their assets, reducing the demand for virgin plastics, promoting a circular economy, and working towards zero waste goals.



Replacing 100 metric tons (100,000 kg) of conventional polyethylene plastic VCI packaging with ZERUST® ICT®510-PCR30 VCI poly, which incorporates 30% recycled resin, results in a remarkable carbon reduction of 26,000 kg (57,320 lbs.). This achievement is equivalent to*:



95-ton reduction in CO₂ emissions for every 100 metric tons of VCI film.



Reduction in CO₂ emissions equivalent to 21 cars driven for a year for every 100 metric tons of VCI film.



Reduction in CO₂ emissions equivalent to the consumption of 10,727 Liters of gasoline for every 100 metric tons of VCI film.



Reduction in CO₂ emissions equivalent to the carbon sequestered by 1,576 tree seedlings grown for 10 years for every 100 tons of VCI film.

*WARN MODEL. Source: US EPA Greenhouse Gas Equivalencies Calculator (as of February 2024).

UNDERSTANDING POST-CONSUMER RECYCLING

Post-consumer recycling is a process that revolves around the collection, processing (sorting, washing, grinding, extruding), and reusing materials and products that have been discarded by consumers. This approach is vital for reducing waste, conserving resources, and mitigating the environmental impact of traditional disposal methods like landfills and incineration.

With the ZeCycle Recycling Program, RecycleMax® simplifies this process for customers by managing the collection, transportation, and reprocessing of used VCI films. Customers no longer have to navigate the logistical challenges of recycling on their own. Instead, used VCI packaging is collected from their facilities, processed into post-consumer recycled (PCR) pellets, and remanufactured into new ZERUST® PCR films. This closed-loop system not only diverts waste from landfills but also ensures these materials are reintegrated into a sustainable packaging lifecycle, promoting resource conservation and reducing carbon emissions.

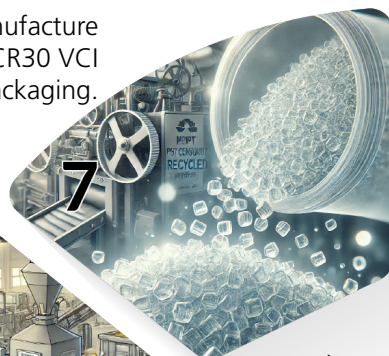
ZECYCLE RECYCLING PROGRAM

At ZERUST®, our commitment to sustainability drives innovative solutions for the collection and recycling of used ZERUST® and non-ZERUST® PE industrial packaging. Partnering with ZERUST® to ensure that your used VCI and plain PE bags are processed into post-consumer recycled (PCR) feedstock. This initiative helps you meet regulatory compliance and market incentives by utilizing recycled materials, enhances your Corporate Social Responsibility (CSR) profile, and supports a circular economy.

Close the loop by recycling ZERUST® VCI packaging through the ZeCycle Recycling Program to reduce your business's carbon footprint and make strides in your Zero Waste goals!

HOW THE ZECYCLE RECYCLING PROGRAM WORKS

PCR Pellets are used to manufacture new ZERUST® ICT®510-PCR30 VCI packaging.



7

Company A packages and ships metal components/equipment in ZERUST® VCI packaging.



1

Recycled packaging is washed and reground into Post-Consumer Recycled (PCR) pellets at the recycling facility.



6

Company B receives metal components/equipment packaged in ZERUST® VCI packaging.



2

RecycleMax® collects and transports the sorted and baled packaging to a recycling facility.



5

Company B sorts used ZERUST® VCI and plain poly packaging on-site.



3

Company B bales used ZERUST® VCI and plain poly packaging on-site.



4

Close the Loop

This end-of-life recovery process ensures that used materials are transformed into new, high-quality ZERUST® VCI packaging, reducing the need for virgin plastics while supporting a circular economy.

POST-CONSUMER RECYCLING

IMPORTANCE OF POST-CONSUMER RECYCLING TO THE ENVIRONMENT:

1. Waste Reduction: Recycling diverts materials from landfills and incinerators, helping to save space and reduce their harmful environmental effects. Landfills can release toxic chemicals and greenhouse gases, while incineration contributes to air pollution. A report from Environmental Action (EA) reveals that in 2023, approximately 68.6 million tons of plastic was discarded into the natural environment. This situation arises from a discrepancy between the amount of plastic used and the ability to effectively handle it once it reaches the end of its life cycle. By participating in programs like ZeCycle, companies can address these challenges directly by recycling used VCI packaging into new products, preventing these materials from contributing to global plastic waste.



2. Resource Conservation: Recycling plays a pivotal role in the conservation of our planet's resources, particularly in the realm of petroleum-based polymer products. By embracing Post-Consumer Recycling (PCR) and participating in programs such as ZeCycle, we can significantly diminish the demand for virgin materials. This is especially critical for products derived from petroleum, a resource that takes millions of years to form. PCR not only aids in reducing our reliance on oil but also mitigates the ecological impact associated with extracting new resources.



3. Energy Savings: The recycling of post-consumer polymers, as seen in the ZeCycle program, is notably energy-efficient, presenting a marked benefit compared to manufacturing new polymers in refineries. This allows businesses to achieve considerable energy conservation while aligning with sustainability goals.



4. Pollution Reduction: PCR and recycling programs like ZeCycle assist with curtailing environmental pollution, offering a greener alternative to the extraction and processing of raw materials. Unlike the practices employed in refineries, which are known to contribute heavily to environmental pollution, PCR operates with a much smaller ecological footprint. By recycling, we actively reduce the pollution of air and water and help in preserving natural ecosystems. This is because PCR avoids the detrimental effects of habitat



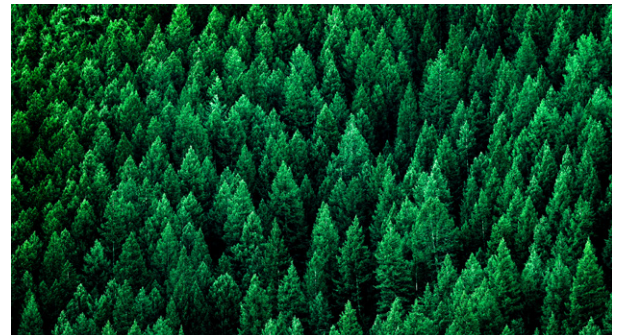
POST-CONSUMER RECYCLING

destruction and soil erosion often associated with the extraction of oil. Emphasizing PCR not only aligns with sustainable practices but also marks a crucial step in diminishing the extensive environmental pollution caused by traditional refining processes, thereby playing a pivotal role in safeguarding our planet's health.

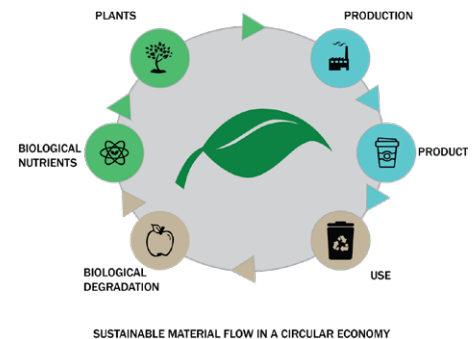
5. Economic Benefits: PCR not only contributes significantly to environmental sustainability but also offers considerable economic advantages. The recycling industry is a growing sector that creates job opportunities, thereby stimulating economic growth. While currently in its nascent stages, as the worldwide infrastructure for recycling expands, we can expect a more pronounced reduction in costs associated with material production and waste processing. This economic benefit, coupled with environmental sustainability, positions PCR as a key driver in both ecological and economic advancement.



6. Conservation of Space: Landfills are limited in capacity, and locating appropriate sites for new ones becomes progressively challenging; PCR and recycling programs like ZeCycle offer a sustainable solution. By redirecting materials away from landfills and into recycling streams, we can significantly extend the lifespan of existing disposal sites. This not only helps in preserving precious land but also safeguards ecosystems that might otherwise be compromised to accommodate waste disposal. The effective management of space through PCR underscores its importance in maintaining ecological balance and highlights its role in the responsible stewardship of our environmental resources.



7. Circular Economy: Recycling is a cornerstone of the circular economy, where products and materials are designed for reuse and recycling. This approach minimizes waste and resource consumption, promoting sustainability. The ZeCycle Recycling Program exemplifies this circular economy model by creating a closed-loop system for VCI packaging. Starting with the use of ZERUST® VCI films, the program enables customers to collect and recycle their used packaging directly at their facilities. From there, RecycleMax® handles the transportation of the materials to specialized recycling facilities, where they are processed into high-quality post-consumer recycled (PCR) pellets. These pellets are then used to manufacture new ZERUST® PCR films, ensuring that materials are repurposed into new products rather than sent to landfills. By participating in the ZeCycle program, businesses actively contribute to the circular economy, reduce their environmental footprint, and align with global sustainability goals.



POST-CONSUMER RECYCLING

CHALLENGES WITH POST-CONSUMER RECYCLING (PCR):

- 1. Collection System/Transportation:** One of the key challenges in implementing PCR in VCI packaging is establishing an efficient collection system. Gathering post-consumer materials often requires a widespread, well-coordinated network that can handle the transportation of used products from various collection points to recycling facilities. This process not only involves logistical complexities but also significant costs. The ZeCycle Recycling Program addresses these challenges head-on by providing a seamless and efficient collection and transportation solution. Through the partnership, RecycleMax® simplifies logistics by managing the entire process—from on-site collection at customer facilities to the transportation of materials to recycling centers. By optimizing transportation routes and consolidating pickups, the program reduces both costs and the environmental impact of transportation-related emissions. Customers can focus on their operations while ZeCycle ensures that their used VCI packaging is collected, transported, and processed sustainably, eliminating the logistical burdens and inefficiencies typically associated with post-consumer recycling. This streamlined system makes it easier than ever for businesses to integrate recycling into their workflows and achieve their sustainability goals.
- 2. Sorting:** After collection, sorting the materials is a critical step. The sorting process must be precise to ensure that only suitable materials enter the PCR stream. Contamination with non-recyclable materials or different types of plastics can compromise the quality of the recycled product. However, sorting is labor-intensive and requires advanced technology for accuracy, which can be cost-prohibitive. Additionally, consumer education plays a vital role in this stage; improperly sorted recyclables at the source can significantly hinder the efficiency of this process. Through the ZeCycle Recycling Program, RecycleMax® helps facilities overcome these challenges by providing comprehensive training on best practices for sorting materials. RecycleMax® works closely with customers to educate their teams on how to properly identify and separate recyclable VCI and LDPE packaging, minimizing contamination and maximizing the value of the materials being recycled. This hands-on approach ensures that materials entering the PCR stream meet quality standards and reduce inefficiencies caused by improper sorting. By equipping facilities with the knowledge and tools they need, the ZeCycle program enables customers to get the most out of their recycling efforts, ultimately improving program success and contributing to a sustainable, closed-loop system.
- 3. Decontamination:** Decontaminating post-consumer materials is essential to ensure they are safe and suitable for reuse in packaging. This process involves removing residues, adhesives, and other contaminants that could affect the quality of the recycled material. Decontamination can be challenging due to the varied nature of contaminants and the need for specialized equipment. It also raises concerns about water usage and handling waste generated from the cleaning process, which must align with sustainable practices. Through the ZeCycle Recycling Program, RecycleMax® addresses these challenges by offering training to facilities on best practices for minimizing contamination at the source. Customers receive guidance on how to properly handle used VCI and LDPE packaging before collection, such as removing excess residue and storing materials in clean, designated areas. This proactive approach reduces the burden on decontamination processes later and ensures that materials entering the recycling stream are in optimal condition for processing. By educating facilities on contamination prevention, the ZeCycle program not only improves the quality of the recycled output but also reduces costs and environmental impact associated with intensive decontamination.

POST-CONSUMER RECYCLING

- 4. Consistency:** Achieving consistency in the quality of recycled materials is a significant hurdle. PCR materials often come from diverse sources and have varying histories, leading to inconsistencies in their properties. Maintaining a standard quality in PCR materials is crucial for VCI packaging, which requires specific mechanical and protective characteristics. Manufacturers face the challenge of blending different batches of recycled materials to achieve a consistent product that meets industry standards. This inconsistency can affect the performance of the packaging and its acceptance in the market. Through the ZeCycle Recycling Program, facilities focus on recycling ZERUST® VCI films and other LDPE products with similar properties to ensure uniformity in the raw materials entering the recycling stream. Using RecycleMax®'s network of specialized recycling facilities, ZERUST® closely monitors and qualifies PCR resins to ensure they meet stringent quality standards. These resins are tested and optimized to align with the performance characteristics of virgin ZERUST® VCI products, maintaining the reliable corrosion protection ZERUST® is known for. By controlling the sourcing and processing of PCR materials, the ZeCycle system overcomes the challenge of inconsistency, ensuring that customers receive high-quality recycled VCI products with dependable mechanical and protective performance. This commitment to quality ensures the continued trust and satisfaction of ZERUST® customers while advancing sustainability goals.
- 5. Performance:** Performance criteria such as mechanical properties, purity, and clarity are critical for VCI packaging. PCR materials often fall short in these areas compared to virgin materials. For instance, the mechanical strength and durability may be reduced, affecting the protective capabilities of the packaging. Purity and clarity are also compromised due to the mixture of different types of plastics and the presence of contaminants. Ensuring that PCR materials meet the stringent performance requirements of VCI packaging is a complex challenge. It often requires additional processing steps or the use of additives, which can increase costs and potentially impact the environmental benefits of recycling. ZERUST® addresses these challenges head-on by ensuring that ICT®510-PCR30 products meet the same high-performance standards as ICT®510-C, which is made with virgin resins. Extensive testing in ZERUST®'s labs confirms that the mechanical properties, strength, and durability of ICT®510-PCR30 films are consistent with their virgin resin counterparts, ensuring reliable performance in demanding environments. Additionally, all ZERUST® products, including those made with PCR materials, undergo rigorous quality control to maintain the industry-leading corrosion protection ZERUST® is known for. This ensures that customers can confidently choose sustainable PCR-based VCI products without compromising on quality or protection. The ZeCycle Recycling Program makes this possible by providing high-quality, well-processed PCR resins, aligning sustainability with the uncompromising performance ZERUST® customers rely on.

With the launch of the ZeCycle Recycling Program, ZERUST® has overcome many of the challenges associated with Post-Consumer Recycling (PCR) in VCI packaging. By implementing innovative collection systems, advanced sorting technologies, efficient decontamination processes, and rigorous quality control for PCR materials, ZERUST® has created a seamless and sustainable closed-loop recycling solution. These advancements not only address the common issues often faced in PCR but also ensure that recycled VCI packaging meets the high-performance standards ZERUST® is known for. As a leader in the industry, ZERUST® is paving the way for more effective and sustainable recycling practices, enabling businesses to achieve their environmental goals without compromising on quality or protection.

POST-CONSUMER RECYCLING

WHY YOUR COMPANY SHOULD CONSIDER THE USE OF ZERUST® POST-CONSUMER RECYCLING VCI PRODUCTS

The growing interest of companies in Post-Consumer Recycled (PCR) materials, particularly PCR polymers like polyethylene and polypropylene, is driven by several compelling factors:

1. Regulatory Compliance and Market Incentives:

Ambitious initiatives like the U.S. Plastics Pact, spearheaded by The Recycling Partnership and the World Wildlife Fund (WWF), aim to ensure that by 2025, all plastic packaging in the U.S. market is reusable, recyclable, or compostable, with a mandate for at least 30% recycled or responsibly sourced biobased content. This goal underscores the necessity of collaborative and individual company efforts to meet these sustainability benchmarks. Similarly, in the UK, a pivotal step has been taken with the introduction of a plastic packaging tax from April 2022. This tax imposes a levy of £210.82 per ton on plastic packaging containing less than 30% recycled plastic, applicable to both domestically produced and imported packaging. This measure, targeting packaging predominantly plastic by weight, aims to economically incentivize the use of recycled materials, thereby fostering a greater demand for such materials. It effectively encourages recycling and diverts plastic waste from landfills, incineration, and exports, aligning with global efforts to enhance packaging sustainability.



2. Resource Scarcity and Cost Savings: The dwindling availability and rising cost of natural resources make recycled materials an increasingly economical choice. PCR materials often prove to be more budget-friendly than virgin counterparts, particularly in a long-term perspective.

3. Corporate Social Responsibility (CSR): Companies are more aware than ever of their role in environmental stewardship. Utilizing PCR materials is a practical expression of this commitment, enhancing a company's CSR profile.

4. Supply Chain Sustainability: Incorporating PCR materials bolsters the sustainability of a company's supply chain, a critical aspect in shaping business strategies and brand reputation.

As sustainability becomes a defining factor for businesses worldwide, ZERUST® stands at the forefront of the Post-Consumer Recycling (PCR) movement with innovative solutions like the ZeCycle Recycling Program and ICT®510-PCR30 VCI film. These initiatives provide companies with a seamless way to meet regulatory demands, enhance their CSR profile, and contribute to a circular economy—all while maintaining the exceptional corrosion protection ZERUST® is renowned for. By choosing ZERUST® PCR products, companies gain access to cutting-edge sustainability technology and a trusted partner committed to environmental stewardship. With ZERUST®, businesses not only protect their metal assets but also lead the way in adopting PCR solutions that shape a greener, more sustainable future.

ZERUST® POST-CONSUMER RECYCLED VCI PACKAGING

ZERUST® ICT®510-PCR30 PCR VCI FILM

ICT®510-PCR30 VCI Film is a proven ZERUST® Vapor Corrosion Inhibiting (VCI) film with 30% post-consumer recycled (PCR) polyethylene, providing sustainable and versatile protection against corrosion damage for metals in shipping and storage. Post-consumer recycling is a process that revolves around the collection, processing (sorting, washing, grinding, extruding), and reuse of materials and products that have been used by consumers and then discarded. This approach is vital for reducing waste, conserving resources, and mitigating the environmental impact of traditional disposal methods like landfills and incineration. Use ZERUST® ICT®510-PCR30 VCI Film to protect metal components and assemblies, machined and cast parts, and more for years[†]. For additional protection in challenging environments, ZERUST® VCI Film may be used with ZERUST® corrosion inhibitor liquid RPs and VCI diffuser products. ICT®510-PCR30 VCI Film can be made into VCI bags, gusset liners, tote covers, and more for the ideal protective packaging solution.



ICT®510-PCR30 VCI Sheeting



ICT®510-PCR30 VCI Gusset Liner



ICT®510-PCR30 VCI Tubing

Typical Properties

- Appearance: Typical colors are yellow, blue, or green. Additional colors are available upon request. Subject to order minimums.
- Protected metal types: Available in ferrous and multimetal protection formulations.

Property	Direction (Machine or Transverse)	ICT®510-PCR30 VCI Film*	ASTM Test Method
Film Thickness	-	4 mil (102 µm)	D-6988
Dart Impact Resistance	-	300 g	D-1709
Elmendorf Tear Strength	MD	1100.8 gf	D-1922
	TD	668.8 gf	
Tensile Strength at Break	MD	21.0 MPa (3045 psi)	D-882
	TD	20.1 MPa (2917 psi)	
Elongation at Break	MD	560 %	D-882
	TD	610 %	
Vapor Inhibiting Ability (VIA)	-	Pass	NACE TM0208

* Typical values, not meant to be a specification.

ZERUST® POST-CONSUMER RECYCLING VCI CASE STUDY



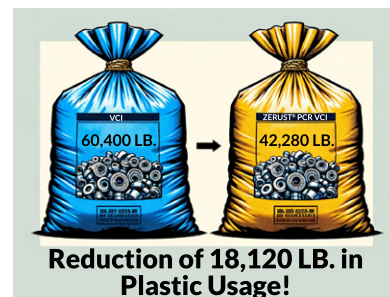
In our journey towards sustainability, we encountered a leading bearing manufacturer grappling with a significant environmental dilemma. They had been using 60,400 LB. of traditional Poly VCI Packaging to shield their bearings from corrosion but were deeply committed to finding a more sustainable solution that would lessen their impact on the environment without sacrificing corrosion protection quality. This quest for an eco-friendlier alternative brought them to us, ZERUST®, a leader in corrosion prevention solutions that recognizes the importance of environmental responsibility.

Sustainable Solution

We embraced the challenge with our innovative ICT®510-PCR30 film, a pioneering sustainable VCI packaging solution that integrates 30% post-consumer recycled material. This strategic move allowed the bearing manufacturer to not only sustain our renowned standard of zero rust on their products but also achieve remarkable strides in environmental conservation. By transitioning to this sustainable packaging option, we facilitated a significant reduction of 18,120 LB. in plastic usage for the bearing manufacturer compared to the traditional Poly VCI Packaging methods they had previously employed.

Results

The outcome of this initiative was profound. The manufacturer continued to enjoy the unparalleled ZERUST® difference in corrosion protection while simultaneously benefiting from substantial cost savings, conservation of organic resources, and a marked reduction in waste destined for landfills. This case is a testament to our commitment at ZERUST® to providing superior corrosion protection solutions that prioritize environmental responsibility, setting a new benchmark for sustainability in industrial packaging.



Circular Economy

ZERUST® is reducing the demand for virgin plastics and promoting the circular economy, actively contributing to a more sustainable and responsible future. By choosing ZERUST® products, businesses not only protect their metal assets and reduce their environmental footprint but also join the global effort toward sustainability. Furthermore, through the ZeCycle Recycling Program, ZERUST® offers customers a seamless, closed-loop system to recycle their used VCI products, including ICT®510-PCR30 films and other compatible packaging. The program simplifies recycling by collecting used materials directly from customer facilities, processing them into post-consumer recycled (PCR) pellets, and remanufacturing them into new ZERUST® PCR VCI products. This initiative enables businesses to achieve measurable reductions in their carbon footprint and aligns with their sustainability goals. Customers participating in the ZeCycle program can further enhance their environmental impact by closing the loop when using ZERUST® VCI film and bags. Embrace ZERUST® solutions to make a significant impact on your environmental goals.

Global Support

Algeria	Denmark	Mexico	Sri Lanka
Angola	Ecuador	Monaco	Sweden
Argentina	Estonia	Morocco	Switzerland
Australia	Finland	Nepal	Taiwan
Austria	France	Netherlands	Thailand
Bangladesh	Gabon	Nigeria	Tunisia
Belarus	Germany	Norway	Turkey
Belgium	Hungary	Peru	Ukraine
Bhutan	India	Philippines	United Arab
Bolivia	Indonesia	Poland	Emirates and
Brazil	Ireland	Portugal	MENA
Canada	Italy	Republic of	(Middle East &
Chile	Japan	Congo	North Africa)
China	Kazakhstan	Romania	United Kingdom
Colombia	Korea	Singapore	United States
Czech Republic	Latvia	Slovak Republic	Uruguay
Democratic	Lithuania	Slovenia	Vietnam
Republic of the	Luxembourg	South Africa	
Congo	Malaysia	Spain	

Visit www.zerust.com for more information!

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† DECLARATION

Corrosion protection claims are based on Northern Technologies International Corporation (NTIC) internal laboratory testing performed under controlled parameters on contaminate-free substrates. Real-world application corrosion protection duration on different substrates will vary and depends on factors such as, but not limited to, the application or use, environmental / storage conditions, surface cleanliness, type of substrates, and coating thickness (where applicable). The use of the term "Up to" in reference to time is defined as any time duration from zero up to a specified time frame, but in no event beyond the specified time frame. The use of the term "for years" is based on NTIC's experience with its products but is in no way guaranteed. The use of the term "Up to" in reference to volume is defined as any volume from zero up to a specified volume but in no event beyond the specified volume of protection. It is the customer's / user's obligation to evaluate product performance, corrosion protection duration, safety, and suitability for intended use within the scope advised in the data sheet and to comply with all applicable laws and regulations. **LIMITED WARRANTY/DISCLAIMER** Warranty is limited to the replacement of a product that fails to meet specifications. For full warranty and disclaimer information, visit www.zerust.com/warranty.