



**Providing superior quality seals, repair kits and service to meet the demands of the rail tank car industry**

The Carolina Seal brand is now a part of Trelleborg Sealing Solutions, which enables us to provide a broad range of solutions specifically focused on the demands of chemical transportation. Beyond supplying a component, our thorough understanding of the individual variables and challenges of fluid sealing management enable us to maximize product performance and minimize maintenance and repair time, delivering bottom line results.

In response to the growing requirements of the market, our broad range of materials ensures you receive consistent performance. We have a proven track record of helping shippers reduce the frequency of non-accident releases (NARs) by eliminating variables that were common contributors, such as improper material selection and inconsistent quality.

These materials are available in a variety of different products ranging from O-Rings and bearings to custom molded or machined shapes. They are carefully selected for each customer's specific application through in-depth SDS data reviews, and each product is systematically tested for quality and compliance.

We have also developed a unique set of services, specifically tailored for your needs. From same day shipping to improved packaging and traceability documentation, Trelleborg Sealing Solutions provides best in class service and support.

**Reducing NARs**

To better serve our chemical transportation customers, we have developed a comprehensive suite of services focused on reducing hazardous materials non-accident releases (NARs). These services support your sealing success with a breadth of research, engineering and materials expertise, industry-recognized training programs and core competencies in O-Rings and gaskets.



*The NAR logo is used with permission from the Association of American Railroads*

**YOUR PARTNER FOR SEALING TECHNOLOGY**

# ENGINEERED SOLUTIONS FOR THE TANK CAR INDUSTRY

## Services and Value-Adds



### In-house Testing and Quality Control

To meet stringent requirements, our in-house quality control laboratory utilizes FTIR Spectroscopy to determine the exact makeup of an elastomer. This allows us to ensure the absolute consistency and repeatability of the materials we supply.



### Climate-Controlled Kitting Operations

Individual heat-sealed bag packaging prevents potential material mix-ups and maximizes shelf life, while preventing dirt, debris and contamination from being introduced.

CAROLINA SEAL CHEMICAL TRANSPORTATION

**Compliance Traceability Form**  
(TO BE FILED IN CAR FILE)

**Shipper Name:** JOHN DOE  
**Car No.:** 60X 39529  
**Compartment No.:** 1  
**Repair Date:** 05/18/2018  
**Valve Manufacturer:** MIDLAND  
**Valve Model No.:** A 710  
**Valve Serial No.:**  
**Commodity (if known):** DENITRATED ETHANOL  
**Repair Shop:** CAROLINA VALVE REPAIR  
**Location:** CHARLOTTE, NC  
**Print Name:** JOHN DOE  
**Installer's Signature:** John Doe  
**NDE Level:**

**M-720-10-TF (720-10) Tracing No.D-9874**

**M-720-11-TF (720-11) Tracing No.D-9885**

**M-720-12-5350 (720-12) Tracing No. A-5925 Expiration: 3Q2029**

**M-720-131-5350 (720-131) Tracing No. A-3571 Expiration: 3Q2027**

**M-713-82-TF (713-82) Tracing No.D-9463**

**KIT-CF-5350**  
Valve Models  
Midland A720, A721, A724

Each kit contains:  
Part No. Midland No. Description Matl.  
M-720-10-TF 720-10 Teflon Seat Teflon  
M-720-11-TF 720-11 Packing Rings Teflon  
M-720-12-5350 720-12 Stem Seal 5350  
M-720-131-5350 720-131 O-Ring Outlet 5350  
M-713-82-TF 713-82 Plug Teflon  
Instruction Sheet

Assembled: May 12, 2018

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WWW.TSS.TRELLEBORG.COM

### Quality Assurance and Traceability

A unique compliance and traceability form is included in each kit we ship, offering 100% documentation and traceability on every seal within the kit.



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For additional information, please contact Trelleborg Sealing Solutions Charlotte  
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