

PLATINUMSHIELD® III
NEW, LONGER-LASTING COATING
FOR NEW AND REMANUFACTURED
AFTERMARKET BRAKE SHOES



MERITOR



 **IDEAS DRIVING RESULTS**
INCREASED RESISTANCE TO
RUST-JACKING AND CORROSION.

THE POWER OF PLATINUM PROTECTS AGAINST RUST-JACKING FOR 3-YEARS/300,000-MILES.



Our “Brake-Through” Technology Is Now Longer-Lasting Technology.

It's hard to improve on an original – especially a game-changing original such as PlatinumShield,[®] but that's exactly what our team of engineers did. And it's going to pay even bigger dividends for Meritor[®] customers.



At Meritor, we continue to invest in our PlatinumShield technology to improve performance and durability. Meritor engineers are continually conducting research and testing to discover ways to improve our PlatinumShield coating process. The result is PlatinumShield III, our third-generation coating with advanced engineering that maximizes resistance to rust-jacking.

In developing PlatinumShield III coating, our aftermarket engineering team discovered a refinement in the process that provides superior adhesion of the coating to the surface of the shoe. Superior adhesion enables the coating to protect the brake shoe for a significantly longer time on the road, increasing the shoe's durability to withstand the corrosion caused by highway de-icing chemicals. The result is a quantum leap in technological performance that creates a new standard of brake-shoe durability. PlatinumShield III coating provides unsurpassed resistance to rust-jacking and corrosion while extending the life of your brakes.

As a result, Meritor new and reman brake shoes with PlatinumShield III coating deliver everything you expect from a worldwide brake leader, including our 3-Year/300,000-Mile warranty against rust-jacking.



Why Does Rust-Jacking Require A Long-Lasting Solution?

- Rust-jacking often shortens the life of brake shoes and brake linings, preventing truck operators from getting the full life out of their equipment.
- Rust-jacking is a field condition caused by harsh anti-icing liquids in winter road solvents, combined with thawing and freezing moisture that penetrates the brake shoe coating and causes rust to build up on the brake shoe table.
- As rust builds up, it pushes outward against the lining, “jacking” it up between the rivets, until the lining cracks.
- Once the lining cracks, driving is unsafe, and the lining must be replaced, cutting short the brake shoe life and denying truck operators its full value – often with a thick amount of lining remaining.
- Rust-jacking is found most often where intense brake heat cannot dry out the shoe table. Typically, it occurs in front shoes.

How Did Our Brake Engineers Originally Solve The Rust-Jacking Problem?

Introduced in 2009, PlatinumShield was created to address a real-world corrosion problem that had long beset the trucking industry. In order to develop a real-world solution, our brake experts re-created actual road conditions. We subjected lined brake shoes to brake applications on a dynamometer before subjecting them to a salt spray test. That way, brake shoes reached the salt spray test with wear and tear that more closely approximated actual highway results.

Next, in our ASTM B-117 salt spray test, brake shoes were sprayed with modern anti-icing road solvents and salt water for 408 hours. We observed how rust forms on brake shoe tables, and tested the corrosion-resistance of countless paints and coatings.



Of all the brake shoes and coatings tested, we found that our PlatinumShield coating did the best job of protecting the shoe table by preventing micro-abrasions, so rust-jacking simply does not occur during the expected life of the brake shoe.

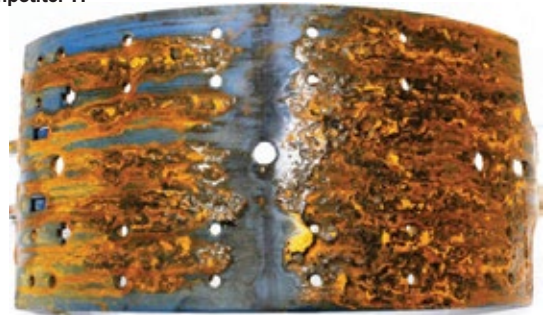
Corrosion Resistance Testing Of PlatinumShield III VS. A Competitor.

Meritor engineers recently conducted a competitive corrosion-resistance benchmark evaluation between PlatinumShield III coating and a competitor's corrosion-resistant shoe coating. Both shoes were salt spray tested for 400 hours per ASTM B-117 to measure corrosion resistance. Results can clearly be seen in the post-testing photos. The superior performance of the PlatinumShield III coating resulted in a corrosion rating of 9 on the ASTM scale, while the competitor's corrosion-resistant shoe coating rated 1 on that scale.

PlatinumShield III



Competitor H



Results after a 400-hour ASTM B-117 salt spray test

With PlatinumShield III, we've completely changed expectations for brake shoe life. In fact, PlatinumShield III meets our desired criteria:

- It rates higher than 8 on the ASTM scale.
- Meritor brake shoes with PlatinumShield III coating offer an industry-leading full 3-Year/300,000-Mile warranty against rust-jacking.

Our proprietary PlatinumShield III coating is available on new and remanufactured Meritor and Fras-le® brand





Nine-Step Brake Remanufacturing Process.

Meritor remanufactured brake shoes with PlatinumShield III coating offer all the advantages of the proven Meritor nine-step remanufacturing process, and greater adherence to the reman shoe surface. In our Plainfield, Ind., facility, each shoe is completely remanufactured – not rebuilt – and restored to the same high quality performance standards as those of original Meritor production brake shoes.

Step 1 – Initial inspection

Trained technicians thoroughly inspect the core for excessive wear or damage, including broken welds, work cams and anchor slots.

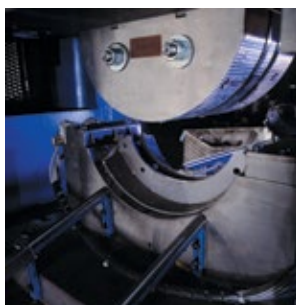


Step 2 – Delining

Old lining is removed using a punch process to ensure the quality of the rivet hole for remanufacturing.

Step 3 – Cleaning

Grease and other contaminants are cleaned from the shoe through a baking process.



Step 4 – Shot Blasting

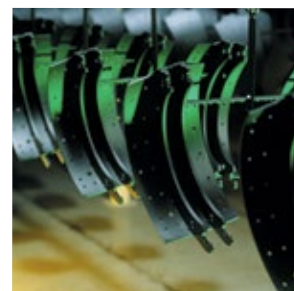
Removes remaining residue of contaminants.

Step 5 – Coining

Returns the brake shoe table to true original shape and dimensions.

Step 6 – Coating/Painting

All brake shoes based on friction material go through a coating and/or painting process. For all frictions except EG/EG2 and Fras-le AF520/AF523, the shoes run through a five-stage pre-treatment and drying process prior to the coating of the shoe with PlatinumShield III. The coating is then cured to ensure proper thickness and consistency across all shoes. All EG/EG2 and Fras-le AF520/AF523 shoes are dipped in water-soluble black paint.



Step 7 – Riveting

Top-quality brake linings are riveted to the brake shoes using a hydraulic riveting process, to ensure consistent performance.



Step 8 – Quality Inspection

Every Meritor remanufactured brake shoe receives a thorough inspection before being cleared for shipping.



Step 9 – Label Approval

Only remanufactured brake shoes with rust-jacking coating that pass the rigorous inspection process receive a brake shoe label.







Truck/Tractor Wheel End Extended Warranty

		Purchase/install these three products together and receive 3-year/300,000-mile coverage.		Purchase/install these four products together for 5-year/unlimited mileage coverage.	
Product	Aftermarket Warranty	3-Year/300,000-Mile Wheel End Warranty ¹	5-Year/Unlimited Mileage Wheel End Warranty ¹		
Temper-Loc® Spindle Nuts	3 Years ³	✓	✓	✓	✓
Meritor Premium Wheel Seals	2 Years or 300,000 Miles ³	✓		✓	
Meritor PlatinumShield™ III Lined Brake Shoes	3 Years or 300,000 Miles ⁴	✓		✓	
Doctor Preload®	1 Year			✓	Temper-Loc Nuts must be installed utilizing the Doctor Preload tool to qualify for unlimited mileage warranty.
Meritor Bearing Sets	1 Year				
Timken® Bearing Sets	1 Year				
Meritor Standard Wheel Seals	1 Year or 150,000 Miles ³				

Trailer Wheel End Extended Warranty

		Purchase/install these four products together and receive 3-year/300,000-mile coverage.		Purchase/install these five products together for 5-year/unlimited mileage coverage.	
Product	Aftermarket Warranty	3-Year/300,000-Mile Wheel End Warranty ¹	5-Year/Unlimited Mileage Wheel End Warranty ¹		
Meritor Hub Caps ²	1 Year	✓	✓	✓	✓
Temper-Loc® Spindle Nuts	3 Years ³	✓		✓	
Meritor Premium Wheel Seals	2 Years or 300,000 Miles ³	✓		✓	
Meritor PlatinumShield™ III Lined Brake Shoes	3 Years or 300,000 Miles ⁴	✓		✓	
Doctor Preload®	1 Year			✓	Temper-Loc Nuts must be installed utilizing the Doctor Preload tool to qualify for unlimited mileage warranty.
Meritor Bearing Sets	1 Year				
Timken® Bearing Sets	1 Year				
Meritor Standard Wheel Seals	1 Year or 150,000 Miles ³				

¹ As part of proper wheel-end maintenance, Meritor recommends the installation of new brake drums and brake hardware.

² Includes Meritor Tire Inflation System Dual Dynamics Hub Caps.

³ From date of installation.

⁴ Against rust-jacking only.

Extended Protection Against Rust-Jacking, And Longer Wheel-End Coverage.

PlatinumShield III coating for new and remanufactured Meritor brake shoes not only provides coverage against rust-jacking for 3-Years/300,000-Miles, but also positively impacts wheel-end extended warranty coverage for both trucks and trailers. When you purchase and install complimentary Meritor wheel-end products together, you can get a 5-Year/Unlimited-Mileage wheel-end extended warranty. This exclusive new warranty program is part of the ongoing effort to help Cover Your Assets (C.Y.A.) with long-lasting parts performance. See the coverage overview or visit MeritorPartsWarranty.com for full coverage details and registration.

Get Our New Extended Brake Shoe Life, Plus Reduced Stopping Distance (RSD) Friction Material.

No other brake shoe delivers extended protection from rust-jacking for the full brake life like Meritor brake shoes with PlatinumShield III coating. And no other brake shoe delivers such a combination of stopping power and corrosive protection, because Meritor brake shoes with PlatinumShield III coating now also feature new Meritor RSD friction materials. It's simply the best combination of braking and durability available in the aftermarket.

For the total service and support you deserve, call our Customer Care Center at (888) 725-9355 or visit MeritorPlatinumShield.com. In Canada, call (800) 387-3889.



IDEAS DRIVING RESULTS

As a world leader in providing aftermarket solutions for the global commercial vehicle and industrial markets, Meritor is committed to providing our customers with innovative aftermarket ideas that deliver the results you need to get the job done faster, better and more efficiently.

Vehicle models, brands and names depicted herein are the property of their respective owners, and are not in any way associated with Meritor, Inc., or its affiliates.



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