

Only TyrFil eliminates Solid Shock

Solid Shock refers to the harsh impact of G-force vibration transmission to heavy industrial vehicle operators and their equipment from solid aperture tyres. Not only is Solid Shock a major source of wear and tear on machines, but it's also a leading cause of operator injury.



Solid Shock to operator

Daily exposure to Solid Shock can cause the operator to experience headaches, lower back pain, joint pain and fatigue. Prolonged exposure can lead to Whole Body Vibration (WBV), a serious physiological condition.

Solid Shock to equipment

Solid Shock transfers unnecessary excessive G-force on equipment, causing costly and premature wear and tear.

Reducing Solid Shock and increasing productivity begins with tyre selection

As a part of any Solid Shock prevention program, tyre choice is paramount to decreasing exposure to excessive G-force transmissions and the resulting adverse health risks.

	G-force Transmission	Flatproof	Recyclable
 Solid Aperture	Extremely High	✓ Yes	No
 TyrFil	✓ Very Low	✓ Yes	✓ Yes



Carlisle TyrFil GmbH
 Buennerhelfstr. 19
 44379 Dortmund, Germany
 +49 231 534 679-100
 international@carlisletyrfil.com

CarlisleTyrFil.com

©2020 Carlisle TyrFil. All rights reserved.
 Unless otherwise noted, all trademarks are owned by or licensed to Carlisle TyrFil.

WE KEEP THE WORLD ROLLING



High Performance
 Flatproofing Technology



What is TyrFil?

TyrFil® is a polyurethane material that is pumped into OTR vehicle tyres, replacing all the air. It cures into a flexible, durable elastomer that acts as a shock absorber and completely eliminates flat tyres.

Why use TyrFil?

Compared to other flatproofing products such as solid tyres, cores and liners, TyrFil is the most cost-effective solution and provides the best overall performance.



Eliminates Flats



Reduces Downtime



Reduces Maintenance Costs



Improves Operator Safety

Protecting the world from flat tyres and increasing productivity for more than 45 years.

Performance

- Eliminates 100% of flat tyres
- Lowers G-force impact to operator and equipment
- Maintains constant internal pressure and distributes loads evenly
- Extends tyre life
- Increases heat resistance
- Eliminates rim slippage
- Improves traction and stability
- Retreadable—up to four times

Safety

- Prevents catastrophic blowouts
- Eliminates Solid Shock and Pneumatic Bounce to operator and equipment
- Improves vehicle stabilisation, enhances ride and reduces operator fatigue

Solid Aperture Tyre



TyrFil Processed Tyre



TyrFil Processed Tyres—41% less G-force transmission to cab/operator than solid aperture tyres. Data was collected on a front end loader tested on a track replicating real jobsite conditions.

For overall safety and performance, **only TyrFil** checks every box.

	TyrFil	Pneumatic Tyres	Solid Aperture Tyres
Eliminates 100% of flat tyres	✓		✓
Prevents catastrophic blowouts	✓		✓
Eliminates Pneumatic Bounce to operator and equipment	✓		
Improves vehicle stabilisation	✓		