

TyrFil™ is a polyurethane material that is pumped into OTR mining

that acts as a shock absorber and completely eliminates flat tires.

vehicle tires, replacing all the air. It cures into a flexible, durable filling

Compared to other flatproofing products such as solid tires, cores and

liners, TyrFil is the most cost-effective solution and provides the best

High Performance Flatproofing Technology

TLC Tire & Rim Protection



"Exposure to mechanical

vibration and to vehicle

jarring are responsible for

over 34% of compensable

workers and over 4% in

non-coal mining workers."

diseases/injuries in coal mine

Performance

overall performance.

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

Analysis of NSW WorkCover figures, 2002-2006.



Safety

- Prevents catastrophic blowouts, critical in underground mining operations
- Eliminates Solid Shock and Pneumatic Bounce to operator and equipment
- Improves vehicle stabilization, enhances ride and reduces operator fatigue
- Helps minimize worker compensation claims

Solid Aperture Tire 1.39 TyrFil Processed Tire 0.8

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





Without TLC



With TLC

tire operating temperatures. The liquid is added to the tire air chamber and coats the inside of the rims to provide rust protection. TLC's rust inhibiting formula, superior coating properties, and continual vapor dispersion extends the life of tires and rims. Plus, TLC is non-toxic, non-flammable, and non-hazardous.

TLC Tire and Rim Protection conditions the wheel and maintains cooler

Performance

Reduces Downtime

- Tires run cooler, increasing tire life
- Eliminates premature failures caused by rust
- Disassembly of wheel components is easier, safer, and faster

Reduces Operating Costs

- Reduces labor costs
- Fewer tires need to be purchased

Safety

Helps Prevent Catastrophic Failures

- Residue builds up where any air escapes—easier to identify slow leaks and cracks
- Greater visibility of problems during pre and post shift inspections
- Reduces operating temperatures to help prevent blowouts

Reduced Operating Costs Per Year

Additional tire maintenance time taken on average without TLC:



25 Trucks



3 Days lost production time

The Testing Proves It



Corrosion Protection

Brand

Protects 2 ½ times better than the competition.

Continuous Vapor Dispersion

Optimal viscosity level coats entire inner rim and tire continues to protect from rust even while not in motion.

Freeze Test



Tested at -10° F (-23° C), the competing product froze within one hour. TLC did not freeze.

Temperature Range

No matter what the average operating ambient temperature, there is a TLC product specifically formulated to perform from lows of -40°F to +20°F (-40°C to -7°C).



What customers say about TLC:

required to separate the bead

cracked wheel which allowed us to replace it before it failed."

"TLC's lubrication extends the life of the liner and bead area."





Select the right products for all your OTR vehicles and applications:

	TyrFil Flex Flatproofing Technology	TyrFil Ultra Flatproofing Technology	TyrFil HeviDuty Flatproofing Technology	TLC Tire & Rim Protection
Durometer	10 Durometer	30 Durometer	55 Durometer	
Features	Maximum tire deflection	Medium heat resistance	Minimum tire deflection	Liquid conditioner for inner rim and tire
				 Reduces running temperatures
				Protects rim from rust
Benefits	Soft air-like ride is easier	Provides optimum	■ Provides rock-steady	Increases hours on tires
	on equipment & operators	performance in the	stability and safety	Promotes safety
	Ideal for mine support vehicles	most severe operating conditions	 Ideal for moving tremendous weights over 	
			short distances	
Shuttle Cars				
Scoops			•	
Roof Bolters		•		
Uni-Haulers		•		
Scalers		•	•	
Drills	•	•		
Tractors	•			
Personnel Carriers		•		
Shield Haulers			•	
Fork Lifts	•	•		
Skid Steers	•			
Front End Loaders	•	•		•
Haul Trucks	•	•		
Lube Trucks		•		
Mechanic Trucks		•		
Cranes		•	•	
Aerial Lifts	•	•	•	
Backhoes	•			
Graders				

If a flatproofing technology is not required, consult with a Carlisle TyrFil sales manager to learn how TLC can extend tire life and reduce downtime in the equipment listed in the above chart.



Each grade of TyrFil is designed to meet your particular load, ride, speed, and traction requirements:

TyrFil Flex

- Maximum tire deflection
- Soft air-like ride is easier on equipment & operators
- Ideal for mine support vehicles

TyrFil Ultra

- Medium heat resistance
- Provides optimum performance in the most severe operating conditions

TyrFil HeviDuty

- Minimum tire deflection
- Provides rock-steady stability and safety
- Ideal for moving tremendous weight over short distances



Each grade of TLC is designed to meet the temperature requirements of your mining operation:

TLC TUNDRA

TLC EXTREME

TLC PRO

TLC HT

TLC formulas are also available in a concentrate

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Carlisle TyrFil

140 Sheldon Rd. Berea, OH 44017 (800) 821-4147 carlisletyrfil.com











