TyrFil® is a patented polyurethane material that is pumped into OTR mining vehicle tires, replacing all the air. It cures into a flexible, durable filling that acts as a shock absorber and completely eliminates flat tires. Compared to other flatproofing products such as solid tires, cores and liners, TyrFil is the most cost-effective solution and provides the best overall performance.

TLC Tire and Rim Protection conditions the wheel and maintains cooler 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.

**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

**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 blow-outs

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**Performance**
- **Eliminates 100% of flat tires**
- **Lower g-force impact to operator and equipment**
- **Maintains constant internal pressure and distributes load evenly**
- **Increases heat resistance**
- **Eliminates rim dishage**
- **Improves traction and stability**
- **Bearable—up to four times**

**Safety**
- **Prevents catastrophic blowouts, critical in underground mining operations**
- **Eliminates solid shock and pneumatic bounce to operator and equipment**
- **Improves vehicle stability, enhances ride and reduces operator fatigue**
- **Helps minimize worker compensation claims**

**Performance**
- **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 job site conditions.**

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**Continuous Vapor Dispersion**
Optimal viscosity level coats entire tire rim and continues to protect from rust even while not in motion.

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**What customers say about TLC:**
- “Using TLC meant cutting tire repair and labor costs; very little effort is now required to separate the bead from the tire.”
- “TLC allowed us to identify an extremely slow leak in a cracked wheel which allowed us to replace it before failure.”
- “TLC’s lubrication extends the life of the tire and wheel.”

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**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 4°C).

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**Analysis of NSW WorkCover Figures, 2002-2006.**

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

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**Corrosion Protection**
TLC’s superior coating ability prevents rust on the entire wheel, extending both tire and wheel life.

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**TLC Tire & Rim Protection**

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**The Testing Proves It**

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**Coating Test**

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**Freeze Test**

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**Environmentally friendly**

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**Exposure to mechanical vibration and to vehicle jarring are responsible for over 34% of compensable diseases/injuries in coal mine workers and over 4% in non-coal mining workers.**

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“Underground or on the surface, Accella has the flatproofing solutions to keep the OTR vehicles in your mining operation running safely and efficiently.”
Select the right products for all your OTR vehicles and applications:

<table>
<thead>
<tr>
<th>TyrFil Flex</th>
<th>TyrFil Ultra</th>
<th>TyrFil HeviDuty</th>
<th>TLC Tire &amp; Rim Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum tire deflection</td>
<td>Medium heat resistance</td>
<td>Minimum tire deflection</td>
<td>Liquid conditioner for inner rim and tire</td>
</tr>
</tbody>
</table>

Benefits:
- Soft air-like ride is easier on equipment & operators
- Ideal for mine support vehicles
- Provides optimum performance in the most severe operating conditions
- Provides rock-steady stability and safety
- Ideal for moving tremendous weight over short distances

Shuttle Cars
- Scoops
- Roof Bolters
- Scraper
- Bridges
- Personnel Carriers
- Shovel Loaders
- Fork Lifts
- Loaders
- Front End Loaders
- Haul Trucks
- Loader Trucks
- Miscellaneous Tanks
- Graders
- Backhoes
- Crushers

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**: -40°F / -40°C
- **TLC EXTREME**: -20°F / -29°C
- **TLC PRO**: 0°F / 18°C
- **TLC HT**: 20°F / -7°C

*TLC formulas are also available in a concentrate

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

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