

Quick Reference Guide

What is TyrFil Flatproofing?

TyrFil is a polyurethane liquid that is pumped into pneumatic tires to replace air with a resilient, synthetic elastomer core that eliminates dangerous and costly tire flats on off-the-road (OTR) equipment. Even in the most hazardous environments, tires filled with TyrFil will never go flat. Despite cuts and punctures, filled tires will keep performing - increasing productivity and eliminating costly downtime for field operators.

TyrFil Process:

Pre-Stretch Tires

for 24 hours to compensate for in-service casing growth. Inject TyrFil

(ISO+CAT) through valve stem with the TyrFil Pump. 3

Vent Carcass

with a hypodermic needle until the liquid flows out through the hole. 4

Plug the Hole

with a nail or sheet metal screw and pressurize the tire with TyrFil to the recommended PSI

Carlisle TyrFil recommendation

5

flat on a pallet. 6

Review operating conditions

Cure for 24 to 48 hours at 72° F.

Product Catalog

Product Name / Durometer Flex 10 **Pro 30** Ultra 30 **HeviDuty 55 Equipment / Application Maximum Deflection** Medium Deflection Medium Deflection Minimum Deflection Better than Air-Ride Used in 90% of tire fill When the environment For slow speeds / applications is extreme heavy loads Wheel Loader / high temperature, load and carry Wheel Loader / scrap metal, waste management, loose material, only load All Equipment*/ underground mining Skid Steer Loader/ any application Forklift / 1, 2 shifts Forklift / 3 shifts Aerial Work Platforms/ all applications Backhoe / all applications except high heat Front Tire Front & Rear Tire Front & Rear Tire Piggyback Forklift / all applications Telehandler / all applications except high heat Cranes / slow movement, construction Slag Pot Carrier / slag transportation Agri Tractor / all applications Agriculture Implements / all applications

Buggy / all applications

In case your specific application or equipment is not listed or if you are not sure about the product you should use, please contact your Carlisle TyrFil representative.

^{*} LHD (scoop), Roof Bolter, Drill, Shuttle Car, Jumbo, Scissor Bolter, and Mining Dumper

Cost Savings Analysis

Here you can estimate your profits from switching to TyrFil	Example – 12 x 16.5 Tire
A. Flat Repair Cost – this includes road service charges, demounting, puncture repair, remounting and any other charges associated with flat tire repairs.	\$125
B. Downtime Per Flat – average in hours.	2
C. Number of Workers Idled – this includes the equipment operator and all other workers idled due to the downed equipment.	2
D. Hourly Pay Rate – include the cost of fringe benefits.	\$25
E. Production Rate - in dollars per hour.	\$80
F. Total Flats for Tire Life – an average from past records if possible.	3

Benefits



Eliminates 100% flat tires



Utilize total tire life



Experience air-ride deflection

1. Repair costs = (A x F)	\$375
2. Cost of idle labor = (B x C x D x F)	\$300
3. Cost of lost production = (B x E x F)	\$480
4. Total costs for flats = (1+2+3)	\$1,155
5. Projected cost to flatproof	\$250
6. Savings with flatproofing (4-5)	\$905

Objections

WEARS OUT TOO FAST!

- The proper PSI and product for the application will result in optimum wear
- Remember, use the right tire for the application

TOO HEAVY!

- TyrFil is lighter than most solid tire options
- TyrFil is a supporting weight, not a hanging weight

IT RIDES TOO HARD!

- Lowers G-force impact to operator and equipment
- Reduces operator fatigue
- Less stress on machine components

Industries

- Mining
- Military
- Ports
- Agriculture
- Airports
- Forestry
- Steel Mills
- Recycling
- Housing Development Industrial Maintenance
- Construction
- Sugar Mills
- Rental Equipment
- Waste Management
- Scrap Metal
- Concrete Pre-Cast

Equipment

- Wheel Loaders
- Skid Steer
- Telehandler
- Piggyback Forklift
- Backhoe
- Agri Tractor
- Aerial Work Platform

- Toe Tractor
- Grader
- GSE
- LHD
- Slag Pot Carrier
- Cranes
- Forklifts

- Light Equipment
- Shuttle Cars
- Drills
- RTG Cranes
- Roof Bolter
- Scraper

We keep the world rolling.

No flats, smoother ride, more protection.

Carlisle TyrFil

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