



GREEN FRICTION LINE

New green-line sintered products set standards in performance and sustainability.

Reducing fine particle emissions without compromising performance, durability, and safety is key in today's development of innovative friction materials. Wabtec's Green Friction solutions addresses these needs. Green Friction technology is the result of both Wabtec's expertise in friction materials and the company's significant investment in accurately measuring braking-particle emissions. Our cutting-edge solution is reducing particle emissions from friction braking on trains.

URBAN CHALLENGES

We're committed to improving air quality and preserving our environment, especially in urban areas and tunnels where air quality is a challenge.

Wabtec's Green Friction Line significantly improves urban air quality. Over the past year, this technology has undergone rigorous testing with Paris region operator, RATP, and has proven its ability to reduce particle emissions from friction braking on metro trains by up to 90 percent. RATP and Wabtec equip trains that operate on one of the busiest lines in Europe with this new technology. This technology represents a significant milestone on the journey towards cleaner tunnels for passengers and network personnel.



BENEFITS

Reduced emissions from friction braking by 60% for PM10, 80% for the PM2.5, and 90% for PM1.

Optimized life cycle cost when green friction is paired with high-grade cast iron (patented friction pair).

Increased pad life cycle up to 4.5 times compared to traditional organic pads.

Low noise, compatible with urban applications.

Plug and play, no brake system setting adjustments needed.

Addresses the latest evolution in standards (e.g. EN15328)

Up to 90%

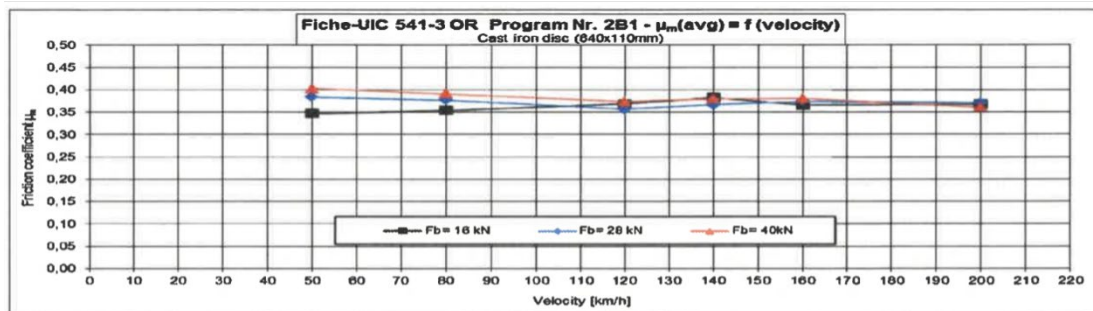
Less fine particles mass during brake application.

The Green Friction product portfolio was developed to meet current and future regulatory standards regarding air pollution and friction performance.

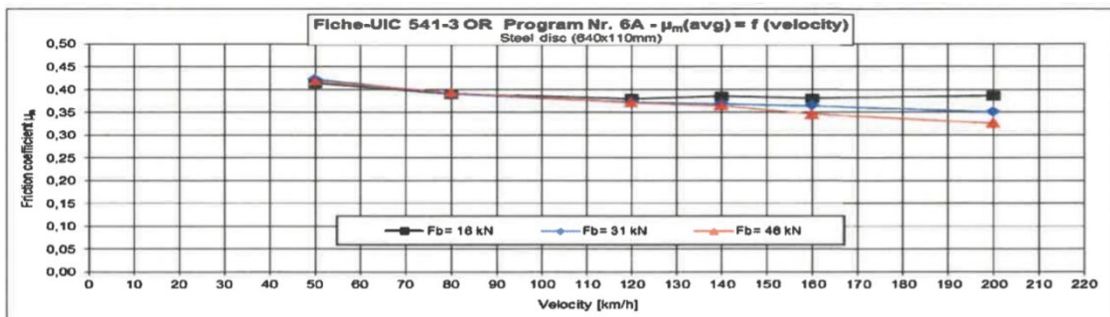
UCI 541-3 8th Ed.	Type 4.3	SP140FF 350	UIC certified
EN 15328:2020	Class C2	SP140FF 350	Compliant

FRICITION PERFORMANCE

Typical friction coefficients for axle mounted discs according to UIC program 2B1. The tested pad was the SF140FF/350.



Typical friction coefficients for axle mounted discs according to UIC program 6A. The tested pad was the SF140FF/350.



*OTHER GREEN FAMILY MATERIALS EN 15328-COMPLIANT

EN 15328:2020	Class D1 & D2	SP140RE/T36	Compliant
EN 15328:2020	Class D2	BMBS 570*	Compliant
EN 15328:2020	Class F1 & F3	CFSP150/T42	Compliant

CONTACT

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