Low-Noise Friction Blocks

FRICITION TECHNOLOGIES
PROBLOCK

REPLACEMENT OF CAST IRON BLOCKS
LL and L Blocks to replace cast iron blocks for lower running noise and stable friction levels

PROBLOCK IB116®
- 50% lower noise, low friction for freight wagons
- Experience at Icer Rail in Spain for more than 15 years
- TSI-approved since May 2013
- UIC homologation
- Application in freight cars

PROBLOCK – L BLOCK
- 50% lower noise block for passenger coaches
- Experience at Icer Rail in Spain for more than 10 years
- TSI-approved since January 2010
- UIC homologation
- Application in passenger coaches

PROBLOCK – NEW GENERATION OF BLOCKS FOR FREIGHT CARS
High friction levels for new freight cars with lowest wear rates

K BLOCK
- 2nd generation of K-blocks
- Low-noise, high friction
- UIC homologation
- Application in modern freight cars

LOW-NOISE BRAKE BLOCKS
- UIC certification
- Extended lifetime 3 times longer than cast iron blocks (CI)
- No jerking – stable friction levels
- No sparking

LOW-NOISE EMISSIONS
Organic blocks have an improved impact on the wheel. The polished wheel surface rolls with lower noise over the tracks. Perceived rolling noise levels are reduced by 50% compared to cast iron blocks (CI).

LOW WEIGHT
Knorr-Bremse blocks have much lower weight than cast iron blocks (70% less).
- Block replacement: easier handling for workers
- 12kg CI Block > 4kg LL Block
- Reduced weight means greater transportation efficiency and lower energy consumption

ENVIRONMENTAL PROTECTION – A REASON TO CHANGE

-12 dB(A) noticeably quieter (50%)

NO SPARKS
Cast iron blocks (CI) have a higher tendency to spark during brake application. The organic blocks from Knorr-Bremse generate no sparks and protect the environment from fire hazards.