Friction Material

APPLICATIONS
Freight Cars | High-Speed Trains | Light Rail Vehicles | Locomotives | Metros | Passenger Coaches | Regional and Commuter Trains
KNORR-BREMSE – A FULL LINER IN FRICTION MATERIAL
Our customers can rely on unique system competence based on integrated engineering to achieve best brake performance.

Long-term EXPERIENCE in friction couple
High production CAPACITY  Strong focus on QUALITY

CUSTOMER BENEFITS
STABLE friction coefficients
LOW NOISE materials
HIGHEST PERFORMANCE friction material
GLOBAL APPLICATIONS EXCELLENCE

Through high-end friction material performance testing, combined with intelligent data management which includes a database of almost 2 million available brake tests, we are able to demonstrate our competence and guarantee the quality of our engineering for future products and applications.
ISOBAR® BRAKE PAD
- Flexible sinter brake pad with highest braking performance
- Broad field of experience in high-speed applications like ICE3, Velaro, CRH2, Shinkansen and many others
- Ideal friction partner for Knorr-Bremse steel discs offering temperature resistance and constant friction behavior
- Long disc and pad life due to even temperature distribution on brake disc
- For overhaul only replacement of friction elements necessary

FLEXPAD® SILENT
- Flexpad® Silent UIC offers high friction performance
- Nominal coefficient of friction $\mu = 0.35$
- Single-piece pad carrier or split design available
- Suitable and tested for both axle-mounted and wheel-mounted brake discs
- Significant noise reduction shown on full scale dynamometer and field test – no squealing
- First application in AGV NTV high speed train
ORGANIC BRAKE PADS

Brake Pads by the brands COSID and Icer Rail for UIC and standard applications

- UIC and GOST homologation
- For passenger coaches, regional trains, EMUs and metros
- Lowest wear rates
- Excellent wet characteristics

Variable hydraulic designs with innovative pin system for high-end application

Innovative KRS* design for extended lifetime of pad and disc

UIC state-of-the-art design for standard applications
UIC BRAKE BLOCKS
Brake Blocks developed and manufactured to fulfill UIC and metro standards

TYPE LL – ICER IB116*
- Low noise, low friction
- UIC homologation
- Direct substitution of cast iron blocks on freight cars

TYPE L – ICER 903/62
- Low noise
- UIC homologation
- Direct substitution of cast iron blocks on passenger coaches and locomotives

TYPE K – COSID 704
- Low noise, high friction
- 2nd generation K-block with lowest wear rates
- UIC homologation

TYPE METRO
- High friction
- Thermal stability
- Metro and locomotive application
- E.g. COSID 697, COSID 804, ICER P73

* A joint venture of Icer Brakes and Knorr-Bremse
AAR BRAKE BLOCKS
Anchor Brake Shoe has been manufacturing a full range of AAR-compliant composition and semi-metallic locomotive and freight car brake shoes for nearly 40 years. Highest quality is combined with “real-world” experience to deliver superior performance and value in all applications and service environments.

WHEELSAVER – HIGH FRICTION SEMI-METALLIC TREAD CONDITIONING FREIGHT CAR BRAKE SHOES
Anchor’s WheelSaver tread conditioning product line is AAR M-997 certified and provides a stable and repeatable coefficient of friction and provides 100% shoe face-to-wheel conditioning capabilities. Our proprietary, semi-metallic friction material has proven to significantly outlast standard composition friction materials and to dramatically decrease premature wheelset removals.

CHANGESAVER – HIGH FRICTION COMPOSITION FREIGHT CAR BRAKE SHOES
Anchor’s ChangeSaver high friction composition freight car product line is AAR M-926 certified. It incorporates our exclusive dampening pad technology designed to withstand excessive vibrations present in today’s heavy haul service environment. This technology, coupled with a dimensional design that has 45% more friction material per shoe than any other AAR certified product, provides unmatched durability and life-cycle performance.

HIGH FRICTION COMPOSITION LOCOMOTIVE BRAKE SHOES
Anchor carries a full line of high friction composition locomotive brake shoes designed to meet the AAR RP-599 and other customer-designed specifications.