

Friction Business

Knorr-Bremse Product Portfolio Friction

April 2018





The portfolio of organic pads by Icer Rail and COSID cover proven materials for various applications including UIC homologated pads



portfolio extract

Organic Pads

COSID 801

Hydraulic and standard applications

High stability of friction coefficient also in high energies

Low pad wear and very low disc wear COSID 828

Excellent pad wear

Excellent wet performance

High thermal stability

UIC homologation 541-3

ICER 106 ICER 203

Application in passenger coaches, EMU / DMU and locomotives

UIC homologation 541-3

ICER P74 ICER P16

High friction level

Stable in high energies

ICER 914

Passenger coaches, EMU / DMU and metro application

Very good pad and disc wear characteristics













With the integration of COSID products Knorr-Bremse can offer a full range of brake pads for hydraulic applications like LRVs



portfolio extract

Hydraulic Pads

COSID 553

Excellent wear rates

High thermal stability

COSID 558

High friction level

High thermal stability

COSID 801

Hydraulic and standard applications

High stability of friction coefficient also in high energies

Low pad wear and very low disc wear

COSID 803

High static friction level

COSID 818 COSID 820

High performance applications

High thermal stability

Excellent wet performance











Icer Rail and COSID offer UIC homologated blocks for freight cars and passenger coaches (LL, L and K) as well as metro applications



portfolio extract

Organic Blocks

COSID 697

METRO

Excellent wear characteristics

Unique recycling concept

Low noise behaviour

COSID 704

K BLOCK

New K-Block with lowest wear rates

For Cast iron replacement for freight cars

UIC homologation 541-4

COSID 804 ICER P73

METRO

High friction level for metro and locomotive application

Designed for short brake distances

IB116*

LL BLOCK

For cast iron replacement in freight cars

UIC homologation 541-4

ICER 903/62

L BLOCK

For cast iron replacement in passenger coaches

UIC homologation 541-4









Icer Rail and COSID Material Overview - Standard Applications

Tool Rail and Goold material overview Standard Applications											
Brake Pad	Classification	JIC	homologated GOST	, homologated	Speed zhukon	Coaches Emi	John Local	motives conker	Metro	Levy tright the	And leader of the same
FLEXPAD	Flex. Sinter Pad		Х	Х	X	X	Х			+++	
FLEXPAD Silent	Flex. Sinter Pad			Х	Х	X	Х			+++	00000
ISOBAR	Flex. Sinter Pad		Х	Х	Х	х				+++	
COSID 553	Hydraulic								х	+++	
COSID 558	Hydraulic								х	+++	
COSID 803	Hydraulic								х		
COSID 805	Hydraulic								х	+	
COSID 818	Hydraulic								х	++	
COSID 820	Hydraulic								х		A STATE OF THE PARTY OF THE PAR
ICER 937	Hydraulic								х	+	
COSID 801	Hydraulic + Standard Organic				Х	X			Х	+	
COSID 828	Standard Organic	x			Х	x		Х			
ICER 106	Standard Organic	х			х	X		Х			
ICER 203	Standard Organic	Х			Х	Х		Х			
ICER 914	Standard Organic				Х	Х		Х			
IR P16	Standard Organic		Х		Х	Х	Х	Х			
IR P74	Standard Organic		Х		X	X	Х	Х			

Brake Block	Chas	stication UIC.	nomologisted gost	homologated	Coaches Emi	JUNU coo von	ndives dankan	reight cat
COSID 697	Metro Block							x
COSID 804	Metro Block		Х		Х	Х		x
IR P73	Metro Block							x
COSID 704	K Block	x					Х	
COSID 804UK	K Block					Х	Х	
ICER 904	K Block			x		x	x	
COSID 903	L Block						Х	
ICER 903/36	L Block			Х	х			
ICER 903/61	L Block			x	х			
ICER 903/62	L Block	x		Х	х			
ICER 905	LL Block					Х	Х	
IB116*	LL Block	х					х	

