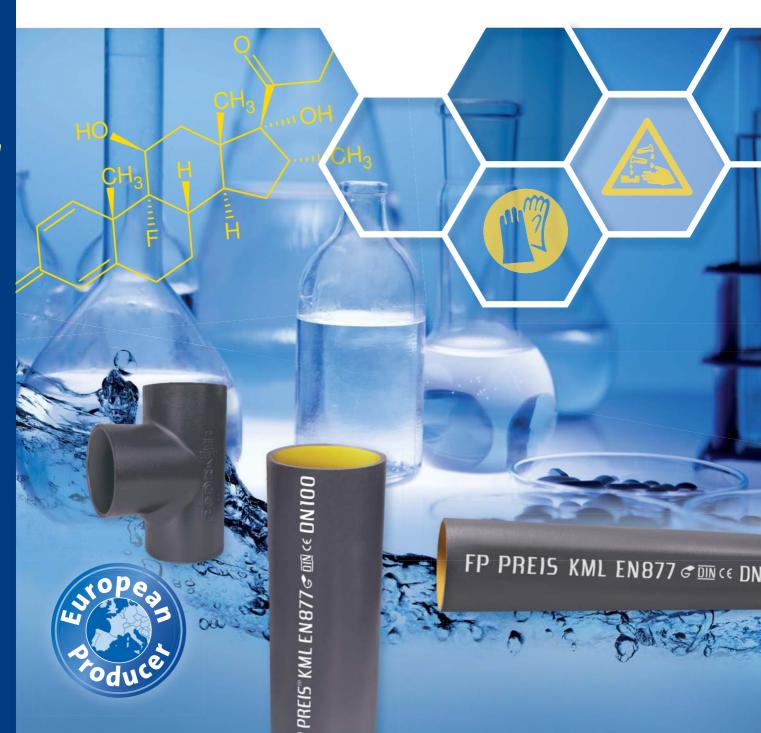


KML - Cast Iron Socketless Drain Pipe Systems

for Special Requirements



www.bnk-group.com





PREIS® KML - the cast iron drainage pipe system for special requirements

The discharge of particularly aggressive wastewater from facilities such as canteens, commercial kitchens, laboratories, medical facilities, etc. brings about special demands on drainage pipes.

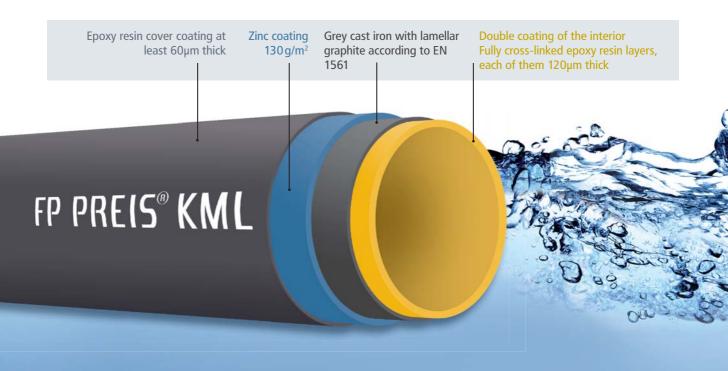
Due to the properties of the materials used, **PREIS® KML** offers all advantages attributed to a cast iron drainage system such as soundproofing properties, fire safety, temperature resistance, etc. In addition to this, **PREIS® KML** pipes are coated on both sides, inside and outside, applying a highly resistant coating with a special procedure; this provides protection against aggressive sewage water and ensures that the pipes are suitable for underground laying.

Coating technology used in PREIS® KML pipes

Aggressive wastewater by default may be defined through its components and their composition as well as through the fluctuating temperature. Moreover, the trend to save water in building drainage leads to an increased concentration of organic and inorganic substances in drainage pipes.

The coating applied inside and outside causes **PREIS® KML** to be ideal for these special requirements.

The inside coating of **PREIS® KML** consists of a double fully cross-linked epoxy resin coating, each of them being 120µm thick. The exterior of the pipes is provided with a zinc coating of 130 g/m² and an epoxy resin cover coating of at least 60µm thickness.



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FP PREIS KML EN877 @

Couplings

For oleiferous wastewater and effluents containing benzine we recommend our **PREIS® Rapid couplings** with NBR gaskets as an alternative. If the **PREIS® KML** piping system is underground-laid or it is exposed to various weather conditions, we recommend the **PREIS® Rapid INOX coupling** made of stainless steel.

Chemical resistance

PREIS® KML is the perfect solution for building drainage whenever the composition of wastewater requires specific materials. As resistance of the pipe system against wastewater is not only influenced by the composition of chemical elements, but also by pressure, temperature, etc., details given in the table have to be taken as a recommendation for your orientation.

For detailed information, please, ask for our form *"Resistance*".

Send us your detailed specifications or a sample - we will be pleased to analyse it in our laboratory.

Resistance of PREIS [®] KML						
		рН	20°C	60° C	80° C	
WATER						
Saltwater NaCl	30g/l	5,6				
Demineralized water		6,6				
Wastewater		6,9				
INORGANIC ACIDS						
Hydrochlorid acid HCL	5%	1,0				
Sulphuric acid H ₂ SO ₄	10%	1,0				
Sulphuric acid H ₂ SO ₄	1%	2,0				
Phosphoric acid H ₃ PO ₄	10%	1,3				
Phosphoric acid H ₃ PO ₄	5%	1,8				
Phosphoric acid H ₃ PO ₄	42%	2,0				
Nitrid acid HNO ₃	10%	2,0				
ORGANIC ACIDS						
Lactic acid	10%	1,1				
Lactic acid	1%	2,2				
Citric acid	5%	2,0				
Vinegar	30%	2,9				
Vinegar	10%	3,2				
ALKALINE SOLUTIONS						
Sodium hydroxide NaOH		12,0				
Sodium hydroxide NaOH		13,6				
Ammonia NH₃		12,1				
Potassium hydroxide KOH		13,6				
	10%	12,0				
Potassium hypochlorite alkaline solution	30%	12,0				
	100%	12,5				
SALTS						
KCL	3%	4,2				
NaH ₂ PO ₄	3%	4,2				
(NH ₄) ₂ SO ₄	3%	6,7				
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+7 (499) 502-21-00

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Head office

PREIS & CO Ges.m.b.H Josef Nitsch-Straße 5 A-2763 Pernitz, Austria Phone: +43 (0)2632/733 55-0 Fax: +43 (0)2632/729 76 office@preis-co.at



Foundry products

FERRO-PREIS d.o.o

Dr. Tome Bratkovica 2 HR-40000 Cakovec, Croatia Phone: +385 (0)40/384 206 Fax: +385 (0)40/384 209 office@ferro-preis.com

WEBSITE Stay up-to-date and visit our homepage **www.preisgroup.com**

Your PREIS® SML & KML sales representative:

115088, Moscow, Ugreshskaya st., 2, str. 146 tel/fax: +7 (499) 502-21-00 E-mail: info@bnk-group.com 195197, St Petersburg, 17-ya Liniya V.O., 52, korp. 2 tel: +7 (812) 602-21-00 E-mail: spb@bnk-group.com 420061, Kazan, Zinina st., 7 tel: +7 (927) 454-21-00 E-mail: kzn@bnk-group.com

www.bnk-group.com

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