

isoplan® SRB - High performance equipment for stainless steel plants world-wide



isoplan® SRB is a composition of biodegradable high performance ceramic, inorganic fibers, fillers and organic binders.

The material was developed for demanding steel roller applications in hot and cold rolling mills.

The slabs produced on a continuous caster have to be reduced in the production process to the thicknesses required for the hot rolling mills. The hot rolling mill reduces the thickness to 5.00 or 6.00 mm.

During the cold rolling process the finished strip often has a thickness of less than 0.40 mm. Minimum tolerances, maximum flatness, ultimate strength and a high-end surface finish are the requirements of today. That's why the leading stainless steel producers world wide use isoplan® grades to guarantee their customers continuous quality based on leading-edge technology.

Compression for installation

9 - 11 N/mm²

Grinding

After assembling the roll the surface should be grinded on a machine to get homogeneous finish.

Grinding speed should be 40 - 50 m/min.

Material data

General data

Binders	organic
Colour	light grey
Temperature limit	1150 °C
Sheet sizes and thickness tolerance	Thickness: ± 10%

Physical properties

	Standard	Unity	Value *
Gasket tickness 5.0 mm			
Density	DIN 28 090-2	[g/cm ³]	0.91
Tensile strength	DIN 52 910	[N/mm ²]	7
		[N/mm ²]	4
Compressibility	ASTM F 36 K	[%]	≤ 25
Recovery	ASTM F 36 K	[%]	≥ 40
Loss on ignition	DIN 52 911	[%]	14
Decrease in thickness	6h / 1200 °C	[%]	≤ 25
Shrinkage by surface	6h / 1200 °C	[%]	≤ 10
		[%]	≤ 12
* = Mode (typical value)			

Material profile

- Mixture of special biodegradable ceramic and inorganic fibers, filler and organic binders.
- Constant and low shrinkage in the critical range between 900 - 1200 °C.

Supply data

- Dimensions in mm 1000 x 1000, 1000 x 2000
- Thicknesses in mm: 5.0
- Further dimensions and thicknesses are available on request

Quality Management

ISO/TS 16949

Environmental Management

ISO 14001

Do you have any questions about your application?
The gasket information service will help you:
gaskets@frenzelit.de

All previous versions of this prospectus cease to apply. Subject to technical amendment.

FZ/2/07.05/001/FZ

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