

isoplan®
High performance equipment
for **stainless steel plants.**

GASKETS

TECHNICAL TEXTILES

EXPANSION JOINTS

INSULATION

NEW MATERIALS



creating
hightech
solutions

High performance equipment for stainless steel plants



Steel demand is booming worldwide. New track records in combined output of steel plants are expected for the near future. No time for plant stops – no time for product defects. Reliable suppliers for long lasting production equipment are on demand.

Frenzelit isoplan® materials for steel rollers are made of a blend of high performance ceramic, inorganic fibers, fillers and organic binders designed to meet the elevated temperature demands of the stainless steel industry. Three materials offering minimum tolerances, maximum roller life, maximum flatness, ultimate strength and high-end surface finish of the stainless steel. That's why the leading stainless steel producers world wide use isoplan® grades to guarantee their customers

continuous quality based on leading-edge technology in the production process. isoplan® materials are multiple approved by leading manufacturers from Sweden to India, from the USA to China in furnace environment and annealing lines.

Available in sheets as well as cut to finished disc size Frenzelit offers complete service to roll fabricators and stainless steel plants. Application engineers offer high quality on-site support based on decades of field experience and product engineering capabilities. Worldwide. 24 hours, 7 days a week.

Values & benefits

- **Maximum life-time**
- **Excellent temperature stability**
- **Minimum abrasion**
- **Offers maximum surface finish quality of the steel strip**
- **Regrindable**
- **Economical advantage to coated roller systems**

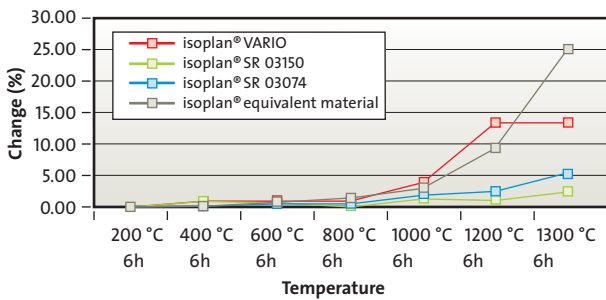


isoplan® VARIO



Surface shrinkage

Maximum life-time of the roller is the key issue when things get hot. Therefore Frenzelit's isoplan® steel roller grades have been developed to minimize the surface shrinkage of the discs under heat effect during the production process. Minimized surface shrinkage which is caused by the temperature difference in the isoplan® layer grants low tensions and longer life-time. High tension values will lead to cracks on the roller surface which is one of the most important reasons for unforeseen production stops and roller changes.

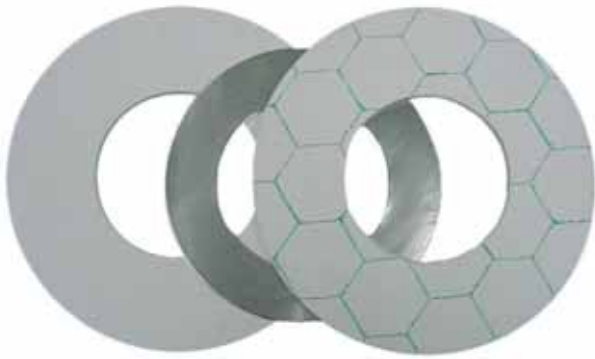


The standard solution for steel plants. A composition of high performance ceramic, inorganic fibers, fillers and organic binders combined with decades of experience has produced a homogenous durable millboard grade for transport roller applications.

The material is predestined for all oven positions and even for the exit of an annealing furnace where the temperature does not exceed 1200 °C.



isoplan® SR 03074



Made of high performance fibers, fillers and organic binders especially developed for highest demands in temperature and durability. isoplan® SR 03074 can be used in various furnace types up to temperature peaks of 1250 °C.

For accelerated heat transfer to the water cooled roller core isoplan® SR 03074 is available with stainless steel discs upon request.

isoplan® SR 03150



The latest technology in transport roller material. A blend of well balanced raw materials and special shot-free ceramic fibers offer a material for transport rollers that provide a level of surface finish never seen before. Combined with minimum abrasion behaviour and the possibility of multiple regrinding processes isoplan® SR 03150 has set new standards for roller materials in the world. That's why the leading motorcycle manufacturer in the United States relies on stainless steel produced in a plant using isoplan® SR 03150 in transport roller applications.

isoplan® SR 03150 is also available with stainless steel discs.



Material data

General data

	isoplan® VARIO	isoplan® SR 03074	isoplan® SR 03150
Temperature limit	1200 °C	1250 °C	1250 °C
Colour	grey	light grey	light grey
Thickness tolerance	± 10 %	± 10 %	± 10 %

Physical properties

Sample thickness 5.0 mm

	Standard	Unit	Value*	Value*	Value*
Density	DIN 28 090-2	[g/cm ³]	0.90	0.95	0.85
Tensile strength	DIN 52 910				
longitudinal		[N/mm ²]	4	4	3
transverse		[N/mm ²]	2	2	2
Compressibility	ASTM F 36 K	[%]	≤ 25	11	15
Recovery	ASTM F 36 K	[%]	≥ 40	59	45
Loss on ignition	DIN 52 911	[%]	14	13	14
Decrease in thickness	6h / 1200 °C	[%]	≤ 20	6	10
Shrinkage by surface	6h / 1200 °C				
longitudinal		[%]	≤ 10	1	1
transverse		[%]	≤ 12	1	1

* Modal value (typical value)

Product data

Sheet material:

Dimensions in mm: 1000 x 1000
1000 x 2000

Thicknesses in mm: 5.0

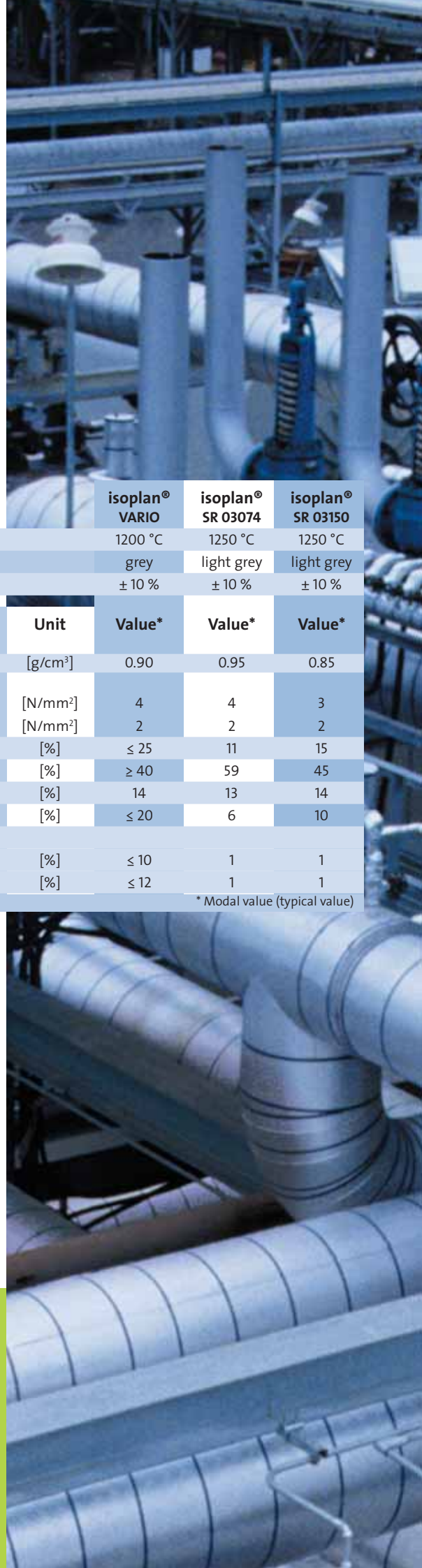
Discs sizes as per your request.

Depending on the specific application with stainless steel discs (thickness 0.05 – 0.10 mm).

Do you have any questions about your application?

The gasket information service will help you:

gaskets@frenzelit.de



Good for people and the environment.

Frenzelit has obtained certification that the company complies with the requirements of both ISO/TS 16949 and ISO 14001. This means complete transparency in all areas and a high degree of security for our customers.

Quality management

ISO/TS 16949

Environmental management

ISO 14001

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