novaplan ® 03010

High-performance insulation inlay for shielding plates, heat shields and exhaust gaskets.

GASKETS

TECHNICAL TEXTILES

EXPANSION JOINTS

INSULATION

NEW MATERIALS

Material profile

novaplan® 03010 is a high-performance insulation material which consists of a well-balanced raw material combination of biosoluble mineral fibres, glass fibres and a small amount of cellulose fibres bonded with an ingenious binder system and optimised with special mineral fillers. It contains a special mineral flame retardant (non-halogenated), which is environmentally compatible and largely avoids the release of harmful gases.

This composition gives novaplan® 03010 the following special properties:

- Application temperature limit: 1,050 °C
- Low heat conductivity
- Non-flammability (acc. to ASTM SAE J369)
- Very good acoustic insulation properties
- Particularly smooth surface
- 3D shapes possible when used as an inlay
- Very good resistance to mechanical stress and vibrations
- Very good processability (almost no release of fibres and only low dust formation compared to textile insulation materials)

Application areas

novaplan® 03010 has been specially developed for the effective absorption of thermal and acoustic emissions in the engine compartment and can be used as:

- a (heat-) shielding component (inlay) in closed 3D-shaped parts
- a gasket with inner eyelet for exhaust systems when cladded between tanged metal

Good for human health and the environment

The Frenzelit gasket division has obtained certification that the company complies with the requirements of ISO 9001, ISO 14001 and ISO 50001. This means complete transparency in all areas and therefore provides a high degree of security – for the benefit of our employees, the environment and our customers.

If you have any application engineering questions, we will be delighted to answer them. Just contact:
gaskets@frenzelit.de

Frenzelit
creating hightech solutions

Technical information about novaplan® 03010

Characteristics

- flexible 3D shaping as an inlay in sandwich constructions
- resistant to high temperatures
- acoustically effective
- good resistance to vibrations
- classified as DNI (does not ignite) acc. to ASTM SAE J369
- easy and clean die-cutting

Heat shield inlay

Exhaust gasket inlay

Material data

General information

Binders	organic and inorganic
Application temperature limit	1,050 °C / 1,922 °F
Recommended temperature	< 900 °C / 1,652 °F
Colour	white

Physical properties Sample thickness 0.80 mm	**Standard**	**Unit**	**Value***
Density	DIN 28 090-2	[g/cm³]	1.00
Tensile strength	DIN 52 910		
longitudinal		[N/mm²]	4.5
transverse		[N/mm²]	3.0
Compressibility	ASTM F 36 K	[%]	15.0
Recovery	ASTM F 36 K	[%]	25.0
Loss on ignition	DIN 52 911 / ASTM F 495	[%]	18.0 / 19.0 (600 °C /800 °C 1,112 °F /1,472 °F)
Thermal conductivity (400 °C)		[W/(m·K)]	0.16

* Modal value (typical value)

Product data (tolerances acc. to DIN 28091-1)	
Rolls width [mm]	1,000 / 2,000
Coils width [mm]	150 – 2,000
Coils inner diameter [mm]	300
Standard thickness [mm]	0.80

Further dimensions and thicknesses are available on request.

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