

BIW Isolierstoffe GmbH

Pregelstraße 2-5
D-58256 Ennepetal
Tel.: +49 (2333) 8308-0
Fax.: +49 (2333) 8308-10
info@biw.de
www.biw.de

Certified management system by:

- IATF16949
- ISO9001
- ISO13485
- ISO14001
- ISO50001
- IIP (Investors in People)



TECHNICAL DATASHEET

INDUSTRIES AND APPLICATIONS



THERBATEX RAW

Typical uses

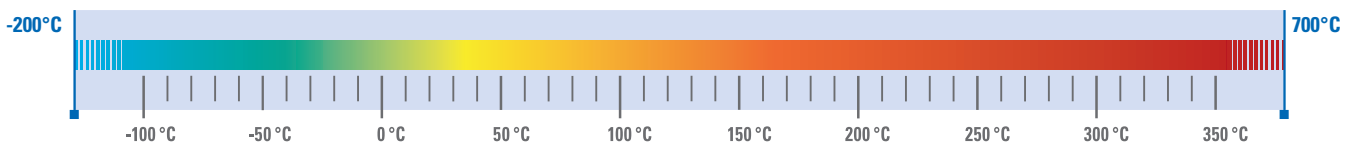
- Automotive industry
- E-mobility / hybrid
- Iron and steel works
- Cable manufacture
- Line protection
- Metal foundries
- Commercial vehicles

Key properties

- Working temperature range -200°C to $+700^{\circ}\text{C}$
- Short-term heat resistance up to $+1000^{\circ}\text{C}$
- Heat resistant and environmentally friendly basalt fibre
- Non-flammable
- Good resistance to temporary effect of fuels and lubricants
- Good resistance to water and salt spray
- Very good sound insulation
- Good acid and corrosion resistance
- Impregnable with resins
- Extreme flexibility and stretchability
- High tensile strength
- Free from plasticizers and heavy metals
- Different wall thicknesses possible
- Colour: greenish
- Nominal diameter 0,5 mm to 60,0 mm



Application temperature



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THERBATEX RAW

Product description

THERBATEX RAW was developed and designed for use in the high temperature range. THERBATEX RAW consists of a basalt fibre having high thermal resistance that is derived from a natural rock (lava rock). The basalt fibre is produced in an environmentally friendly production process with low CO₂ emissions into the atmosphere. The THERBATEX RAW protective hose is suitable for maximum thermal stress and is therefore used, for example, for the thermal insulation of lines which are located in the vicinity of extremely hot parts (manifold, exhaust, etc.). The temperature resistance of the basalt fibre is at approximately 700°C. The protective function remains largely intact, even in the case of a partial thermal overloading, due to the excellent temperature properties of THERBATEX RAW. With the special braided design, the THERBATEX RAW becomes extremely extensible and flexible. THERBATEX RAW is designed as a protective hose without defined dielectric strength.

Application properties

Property	Standard	Test requirements	Result
Flame resistance	FMVSS 302	Flame height 38 mm Flame exposure 15 s	Self-extinguishing, classification A

Ecology, Environment & Safety

Ingredients compliant with VDA requirements

IMDS listed

RoHS, GADSL compliant

Non-asbestos, basalt faser non-carcinogenic, non-hazardous to the environment, non-hazardous to water

The basalt faser requires compliance with the industrial hygiene. Workplace ventilation has to be turned away from the worker, sensitive individuals may get slight skin irritation

When using and disposing the THERBATEX RAW protective sleeve there are no environmentally relevant by-products expected

BIW-Standard dimensions

THERBATEX RAW (Code: BRO)

On demand individual dimensions available at any time

ID [mm]	Tol. ID [mm]	Wd [mm]	Tol. Wd [mm]	Ring [m]
0.5	±0.3	0.6	±0.3	200
1.0	±0.3	0.6	±0.3	200
2.0	±0.3	0.6	±0.3	200
3.0	±0.3	0.6	±0.3	200
4.0	±0.3	0.6	±0.3	200
5.0	±0.5	0.6	±0.3	200
6.0	±0.5	0.6	±0.3	100

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**THERBATEX RAW****BIW-Standard dimensions****THERBATEX RAW (Code: BRO)**

On demand individual dimensions available at any time

ID [mm]	Tol. ID [mm]	Wd [mm]	Tol. Wd [mm]	Ring [m]
7.0	±0.5	0.6	±0.3	100
8.0	±0.5	0.6	±0.3	100
9.0	±0.5	0.6	±0.3	100
10.0	±1.0	0.8	±0.3	100
11.0	±1.0	0.8	±0.3	100
12.0	±1.0	0.8	±0.3	100
13.0	±1.0	0.8	±0.3	100
14.0	±1.0	0.8	±0.3	100
15.0	±1.0	0.8	±0.4	100
16.0	±2.0	0.8	±0.4	100
17.0	±2.0	0.8	±0.4	100
18.0	±2.0	0.8	±0.4	100
19.0	±2.0	0.8	±0.4	100
20.0	±2.5	1.2	±0.4	50
21.0	±2.5	1.2	±0.4	50
22.0	±2.5	1.2	±0.4	50
23.0	±2.5	1.2	±0.4	50
24.0	±2.5	1.2	±0.4	50
25.0	±2.5	1.2	±0.4	50
26.0	±3.0	1.2	±0.4	50
27.0	±3.0	1.2	±0.4	50
28.0	±3.0	1.2	±0.4	50
29.0	±3.0	1.2	±0.4	50
30.0	±3.0	1.5	±0.5	25
35.0	±5.0	1.5	±0.5	25

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ID [mm]	Tol. ID [mm]	Wd [mm]	Tol. Wd [mm]	Ring [m]
40.0	±5.0	1.5	±0.5	25
45.0	±5.0	1.5	±0.5	25
50.0	±5.0	1.5	±0.5	25
60.0	±5.0	1.5	±0.5	25