

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)



*When it comes
to competence*

TECHNICAL DATASHEET

INDUSTRIES AND APPLICATIONS



ALUFLEX A

Typical uses

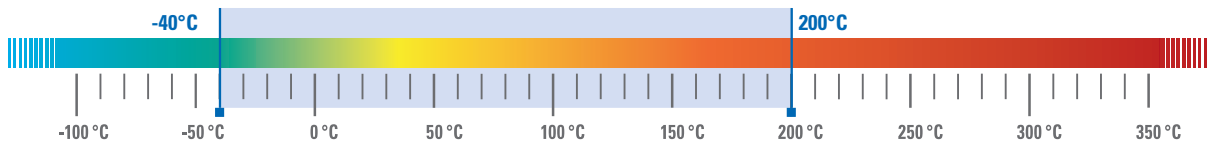
- Automotive industry
- E-mobility / hybrid
- Cable manufacture
- Line protection

Key properties

- Temperature resistance on the surface -40°C to +200°C
- Short-term heat resistance up to +220°C
- Temperature resistance to thermal radiation up to +600°C
- Excellent reflection of thermal radiation by aluminium surface
- Conditionally resistance to water, fuels and lubricants
- Physiologically harmless
- Good buckling and bending resistance
- Good flexibility
- Silver-coloured, aluminium-coloured
- Self-extinguishing
- Suitable for tight bending radius
- Nominal diameter 8.0 mm to 35.0 mm



Application temperature



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

INDUSTRIES AND APPLICATIONS



ALUFLEX A

Product description

The ALUFLEX A is a longitudinal laminated flexible and self-extinguishing heat protection sleeve made of a specially heat-resistant glass knitted fabric with a metallic surface made of pure aluminium. The aluminium surface provides excellent thermal radiation reflection behaviour even in situations of temporary overheating. Therefore in case of temporary overheating and even if the binding layer is damaged, the heat protecting function remains. The ALUTEX A is ideal for shielding radiant heat to adjacent components, e.g. in the engine compartment. A very good installation in tight bending radius is possible because of the longitudinal lamination. By using ALUFLEX A cables, plugs wiring harness absorb no or significantly less heat from hot, adjacent components.

Application properties

Property	Standard	Test requirements	Result
Flame resistance	VW TL 1010 FMVSS 302	Flame height 38 mm Flame exposure 15s	Self-extinguishing
Radiant heat	Self-test	IR ceramic spotlight 600°C Distance spotlight 20mm Test time 24h	Inner sleeve temperature ca. 70°C

Mechanical / physical properties

Property	Standard	Test requirements	Result
Abrasion resistance	LV 312-3	Test at room temperature	Classification A

Ecology, Environment & Safety

Ingredients compliant with VDA - requirements

IMDS listed

RoHS, GADSL compliant

Non-asbestos, textile glass fibres non-carcinogenic, not hazardous to the environment, not hazardous to water, land-fill disposable, no decomposing

BIW-Standard dimensions

ALUFLEX A (Code: GGA)

On demand individual dimensions available at any time

ID [mm]	Tol. ID [mm]	Wd [mm]	Tol. Wd [mm]	Ring [m]
8.0	±0.5	1.0	±0.3	50
10.0	±0.5	1.0	±0.3	50
11.0	±0.5	1.0	±0.3	50
12.0	±0.5	1.0	±0.3	50
13.0	±0.5	1.0	±0.3	50

(Continued on the next page)

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

**ALUFLEX A****BIW-Standard dimensions****ALUFLEX A (Code: GGA)**

On demand individual dimensions available at any time

ID [mm]	Tol. ID [mm]	Wd [mm]	Tol. Wd [mm]	Ring [m]
14.0	±0.5	1.0	±0.3	25
15.0	±0.5	1.0	±0.3	25
16.0	±0.8	1.0	±0.3	25
17.0	±0.8	1.0	±0.3	25
18.0	±0.8	1.0	±0.3	25
19.0	±0.8	1.0	±0.3	25
20.0	±1.0	1.0	±0.3	25
21.0	±1.0	1.0	±0.3	25
22.0	±1.0	1.0	±0.3	25
23.0	±1.0	1.0	±0.3	25
24.0	±1.0	1.0	±0.3	25
25.0	±1.0	1.0	±0.3	25
26.0	±1.2	1.0	±0.3	25
27.0	±1.2	1.0	±0.3	25
28.0	±1.2	1.0	±0.3	25
29.0	±1.2	1.0	±0.3	25
30.0	±1.5	1.2	±0.3	25
32.0	±1.5	1.2	±0.3	25
34.0	±1.5	1.2	±0.3	25
35.0	±1.5	2.0	±0.4	25