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Certified management system by:

- IATF16949
- ISO9001
- ISO13485
- ISO14001
- ISO50001

When it comes to competence

INDUSTRIES AND APPLICATIONS

ALUTEX

Typical uses

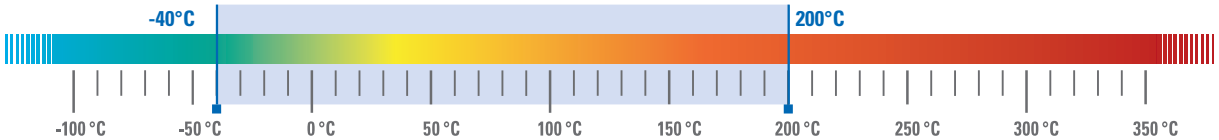
- Automotive industry
- E-mobility / hybrid
- Cable manufacture
- Line protection

Key properties

- Temperature resistance on the surface of -40°C to +200°C
- Short-term heat resistance up to +220°C
- Temperature resistance to radiant heat up to +600°C
- Reflection of thermal radiation by aluminium surface
- Conditionally resistance to temporary effect of water, fuels and lubricants
- Good buckling and bending resistance
- Good flexibility
- Physiologically harmless
- Self-extinguishing
- Silver-coloured, aluminium-coloured
- Nominal diameter 10.0 mm to 35.0 mm

Chlorine free

Application temperature



Tests / References

EDAG

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Product description

The ALUTEX protection sleeves is made of a special, particularly heat-resistant textile glass (E glass) with a pure aluminium surface. The aluminium surface has excellent reflectivity to radiation heat and provides excellent protection against thermal radiation. The aluminium is wrapped around the glass fibre braid with an overlapping of approximately 10%. Therefore in case of partial overheating, even if the binding layer is damaged, the heat protecting function will remain. The ALUTEX is ideal for shielding radiant heat to adjacent components, e.g. in the engine compartment. By using ALUTEX cables, plugs or wiring harness absorb no or significantly less heat from hot, adjacent components. The wall thickness of the sleeve can be produced in different degrees of thickness. The ALUTEX is self-extinguishing according to VW TL1010, FMVSS302, 49 CFR571.302, DIN 75200, 1995/0028EG, UL94 V1.

Application properties

Property	Standard	Test requirements	Result
Flame resistance	FMVSS 302 TL1010	Flame height 38 mm Flame exposure 15s	Self-extinguishing
Radiant heat	Self-test	IR ceramic spotlight 600°C Distance spotlight 20 mm 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
Dynamic bending strength	VW 603.06	Number of cycles 300 Cycle time 3s	No damage

Compatibilities

Medium	Standard	Test requirements	Result
Salt spray mist	DIN 50 021-SS	Test duration 72h	No corrosion

Ecology, Environment & Safety

Ingredients compliant with VDA - requirements
IMDS listed
RoHS, GADSL compliant
Non-asbestos, textile glass fibres non-carcinogenic, non-hazardous to the environment, non-hazardous to water, land-fill disposable, no decomposing

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BIW-Standard dimensions

ALUTEX (Code: GRA)

On demand individual dimensions available at any time

ID [mm]	Tol. ID [mm]	Wd [mm]	Tol. Wd [mm]	Ring [m]
10.0	±0.5	0.4	±0.3	50
11.0	±0.5	0.6	±0.3	50
12.0	±0.5	0.6	±0.3	50
13.0	±0.5	0.6	±0.3	50
14.0	±0.5	0.6	±0.3	25
15.0	±0.5	0.6	±0.3	25
16.0	±0.5	0.6	±0.3	25
17.0	±0.5	0.6	±0.3	25
18.0	±0.5	0.6	±0.3	25
19.0	±0.5	0.6	±0.3	25
20.0	±0.7	0.8	±0.3	25
21.0	±0.7	0.8	±0.3	25
22.0	±0.7	0.8	±0.3	25
23.0	±0.7	0.8	±0.3	25
24.0	±0.7	0.8	±0.3	25
25.0	±0.7	0.8	±0.3	25
26.0	±0.7	0.8	±0.3	25
27.0	±0.7	0.8	±0.3	25
28.0	±0.7	0.8	±0.3	25
29.0	±0.7	0.8	±0.3	25
30.0	±0.7	0.8	±0.3	25
31.0	±0.7	1.2	±0.4	25
32.0	±0.7	1.2	±0.4	25
33.0	±0.7	1.2	±0.4	25
34.0	±0.7	1.2	±0.4	25
35.0	±0.7	1.6	±0.4	25

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