

## BIW Isolierstoffe GmbH

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## Certified management system by:

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



TECHNICAL DATASHEET

## INDUSTRIES AND APPLICATIONS



## ALUWRAP

### Typical uses

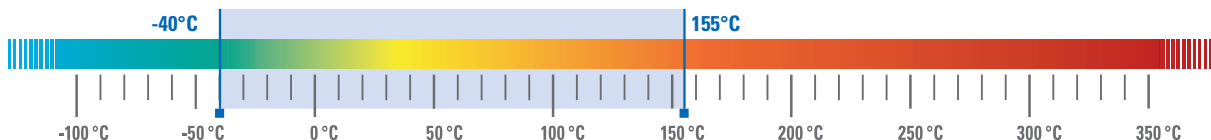
- Automotive industry
- E-mobility / hybrid
- Cable manufacture
- Line protection

### Key properties

- Long-term heat resistance of -40°C to +155°C
- Short-term heat resistance up to +180°C
- Temperature resistance to radiant heat up to +600°C
- Reflection of thermal radiation by aluminium surface
- Self-extinguishing according to FMVSS 302
- Good resistance to water
- Conditionally resistance to fuels
- Good buckling and bending resistance
- Good flexibility
- High abrasion resistance
- Physiologically harmless
- Silver-coloured, aluminium-coloured
- Nominal diameter 10,0 mm to 35,0 mm



### Application temperature



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# ALUWRAP

## Product description

ALUWRAP protective hose are longitudinally open and can be closed by means of the self-adhesive strip, rolled hoses of particularly temperature-resistant E-glass braided strip with pure aluminium clad surface. The aluminium cladding of the surface results in an excellent degree of reflection of radiated heat and also with partial overheating provides an excellent protection from heat radiation. The aluminium cladding is self-adhesive in the covering and is furnished with an acrylate adhesive. ALUWRAP protective hose have good resistance to water and are somewhat resistant (short-term point contact) to fuels and oil.

ALUWRAP protective hose are particularly suited to protection from radiating heat in neighboring components such as in the engine compartment. Thanks to the use of ALUWRAP protective hose, lines and cable trees absorb no heat or substantially less heat from neighboring hot components. The ALUWRAP protective hose is self-extinguishing according to the FMVSS 302.

## Application properties

| Property         | Standard  | Test requirements   | Result                               |
|------------------|-----------|---|--------------------------------------|
| Flame resistance | FMVSS 302 | Flame height 38 mm<br>Flame exposure 15s                                | Self-extinguishing, Classification B |
| Radiant heat     | Self-test | IR ceramic spotlight 600°C<br>Distance spotlight 20 mm<br>Test time 24h | Inner sleeve<br>Temperature ca. 70°C |

## Ageing

| Property                       | Standard          | Test requirements                          | Result                |
|--------------------------------|-------------------|--|-----------------------|
| Short-term ageing 240h / 160°C | Based on LV 312-3 | Adhesion of aluminium foil / textile fibre | Requirements achieved |

## 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, non-hazardous to the environment, not hazardous to water  
land-fill disposable, no decomposing

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## ALUWRAP

## BIW-Standard dimensions

### ALUWRAP (Code: AWR)

ALUWRAP is available in individually cut lengths

| ID [mm] | Tol. ID [mm]            | Wd [mm] | Tol. Wd [mm] | Ring [m]           |
|---------|-------------------------|---------|--------------|--------------------|
| 10      | Overlapping 90°+40°-25° | 0.4     | ±0.2         | production lengths |
| 15      | Overlapping 90°+40°-25° | 0.7     | ±0.3         | production lengths |
| 20      | Overlapping 90°+40°-25° | 0.7     | ±0.3         | production lengths |
| 25      | Overlapping 90°+40°-25° | 0.7     | ±0.3         | production lengths |
| 30      | Overlapping 90°+40°-25° | 0.7     | ±0.3         | production lengths |
| 35      | Overlapping 90°+40°-25° | 1.0     | ±0.3         | production lengths |