

- IATF16949
- ISO9001
- ISO13485
- ISO14001
- ISO50001

INDUSTRIES AND APPLICATIONS



THERMOTEX 650R

Typical uses

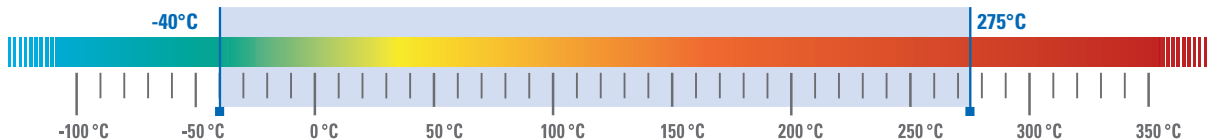
- Automotive industry
- Crash protection
- E-mobility / hybrid
- Cable manufacture
- Line protection

Key properties

- Long-term heat resistance of -40°C to $+275^{\circ}\text{C}$,
- Short-term heat resistance up to $+300^{\circ}\text{C}$
- Radiant heat resistance up to $+650^{\circ}\text{C}$
- Heat reflection by aluminum impregnation
- High mechanical protection, crash protection
- Good abrasion resistance
- Good cut resistance, buckling resistance and tensile strength
- Good resistance to water, water-glycol mixture, salt spray, as well as to fuels and lubricants during temporary exposure
- Very good stretchability
- Thick-walled, thermally insulated
- Colour: silver
- Nominal diameter 5,0 mm to 30,0 mm



Application temperature



Product description

The THERMOTEX 650R protective hose is a combination of textile glass with aluminium impregnation. Because of the thermal requirements, the textile glass is a special thread which ensures an extraordinary thermal insulation due to its special properties. The aluminium impregnation based on a thermally stabilised silicone resin emulsion supports the high thermal resilience by means of additional heat reflection effect. Thus, the THERMOTEX 650R protective hose is suited especially for use in thermally exposed places where protection against radiation is required, such as in the engine compartment or near exhausts.

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THERMOTEX 650R

Application properties

Property	Standard	Test requirements	Result
Flame resistance	FMVSS 302 LV 312-3	Flame height 38 mm Flame exposure 15s	Self-extinguishing

Ageing

Property	Standard	Test requirements	Result
Short-term ageing 375h / 250°C	LV 312-3	Winding test	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, non-hazardous to water

The textile glass sleeve 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 THERMOTEX 650R protective sleeve there are no environmentally relevant by-products expected

BIW-Standard dimensions

THERMOTEX 650R (Code: GRS)

On demand individual dimensions available at any time

ID [mm]	Tol. ID [mm]	Wd [mm]	Tol. Wd [mm]	Ring [m]
5.0	±0.30	1.20	±0.30	100
6.0	±0.30	1.20	±0.30	100
7.0	±0.30	1.20	±0.30	100
8.0	±0.30	1.20	±0.30	100
9.0	±0.30	1.20	±0.30	100
10.0	±0.50	1.20	±0.30	100
11.0	±0.50	1.20	±0.30	50
12.0	±0.50	1.20	±0.30	50
13.0	±0.50	1.20	±0.30	50
14.0	±0.50	1.20	±0.30	50

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Certified management system by:

- IATF16949
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TECHNICAL DATASHEET

INDUSTRIES AND APPLICATIONS

**THERMOTEX 650R****BIW-Standard dimensions****THERMOTEX 650R (Code: GRS)**

On demand individual dimensions available at any time

ID [mm]	Tol. ID [mm]	Wd [mm]	Tol. Wd [mm]	Ring [m]
15.0	±0.50	1.20	±0.30	50
16.0	±0.50	1.20	±0.30	50
17.0	±0.50	1.20	±0.30	50
18.0	±0.50	1.20	±0.30	50
19.0	±0.50	1.20	±0.30	50
20.0	±0.70	1.20	±0.30	25
21.0	±0.70	1.20	±0.30	25
22.0	±0.70	1.20	±0.30	25
23.0	±0.70	1.20	±0.30	25
24.0	±0.70	1.20	±0.30	25
25.0	±0.70	1.20	±0.30	25
26.0	±0.70	1.20	±0.30	25
27.0	±0.70	1.20	±0.30	25
28.0	±0.70	1.20	±0.30	25
29.0	±0.70	1.20	±0.30	25
30.0	±0.70	1.50	±0.30	25