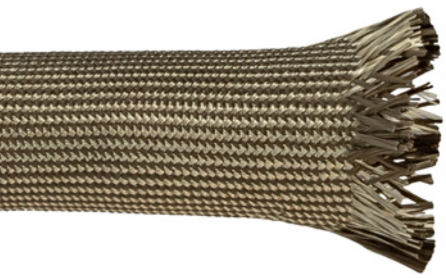
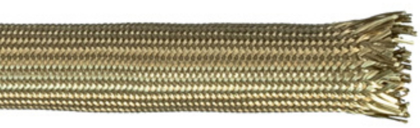
BASALT FIBRE FOR HIGH-TEMPERATURE APPLICATIONS

PRODUCT DESCRIPTION

Wherever **high temperatures** are to be expected, it is advisable to fall back on our portfolio of basalt fibres. Due to its extreme stretchability and flexibility, the basalt fibre can be fitted over without any problems, and even sharp curves are no obstacle. The basalt fibre is extracted from a natural rock and produced in an environmentally friendly production process with low CO_2 emissions into the atmosphere. The basalt fibre provides excellent thermal insulation and is characterised by **extreme high-temperature resistance** and durability. Whether it's finely knitted, coarsely knitted, or braided fabric, we have the right end product for your application. Feel free to contact us.

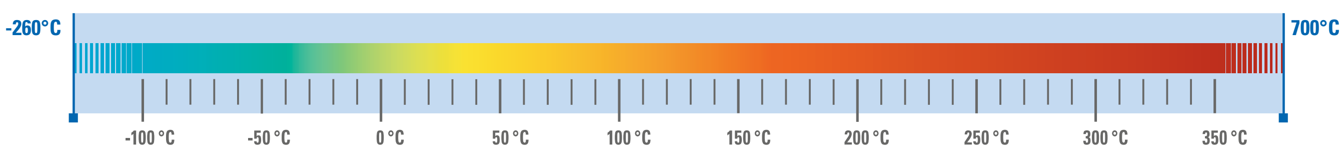




KEY PROPERTIES

- not flammable
- high temperature resistant
- low moisture absorption
- environmentally friendly = natural product
- free from plasticizers and heavy metals
- extreme flexibility and stretchability
- high tensile strength
- good acid and corrosion resistance
- good resistance to fuels and lubricants during short-term contact
- good resistance to water and salt spray
- very good sound insulation
- impregnable with resins
- thermally insulating

OPERATING TEMPERATURE



TYPICAL USES

- equipment items for pipes
- automotive industry
- railway
- crash protection
- e-mobility / hybrid
- iron and steel works
- electrical insulation
- glass industry
- cable manufacturing
- line protection
- machinery and plant engineering
- metal foundries
- furnace / chimney construction
- welding and cutting technology

MATERIAL PROPERTIES IN COMPARISON: TEXTILE GLASS FIBRE – BASALT FIBRE

COMPARISON	TEXTILE GLASS FIBRE	BASALT FIBRE
standard	DIN EN ISO2078	DIN 4102 & ISO 137-1975
colour	white	green grey
fire resistance	incombustible	incombustible
filament diameter	> 9 µm	> 9 µm
continuous temperature resistance	-100 °C – +450 °C	-260 °C – +700 °C
softening temperature	720 °C	1,050 °C
melting temperature	882 °C	1,450 °C
density	2.72 g/cm³	1.91 g/cm³
tensile strength	3,450 MPA	4,840 MPA
absorption of water	1.00 %	0.50 %
chemical resistance	good	good

Status 12.2020

BASED ON THE FOLLOWING STANDARDS

- DIN 4102 & ISO 137-1975
- LV 312-3
- DIN EN 60684
- FMVSS 302, TL 1010
- ISO 3795
- DIN 75200 UL 1441 VW1
- ROHS
- GADSL
- IMDS
- LFGB§31

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When it comes to competence

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