

## Material profile

The asbestos-free raw material combination consists of high-quality aramid fibres bonded with nitrile- butadiene-rubber (NBR). It is optimized with special functional fillers. This composition gives REBCON® UNIVERSAL the following special properties:

- General purpose use
- Good handling properties
- Good residual stress
- Low gas leakage rate
- Excellent value for money

## Application areas

REBCON® UNIVERSAL is the ideal choice for use under low and average temperature and pressure conditions, as well as for uncritical media.

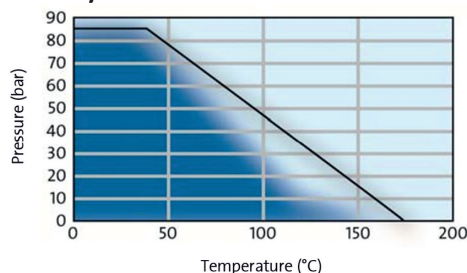
- Heating and sanitary applications
- Pipeline constructions
- Plant engineering
- Machine manufacturing

Recommended for applications with media transmission, hydraulic, refrigerating and motor oils as well as fuels.

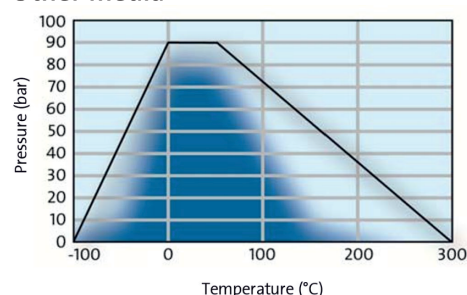
## Recommendations for use

according to pressure and temperature

### Water/steam



### Other media\*



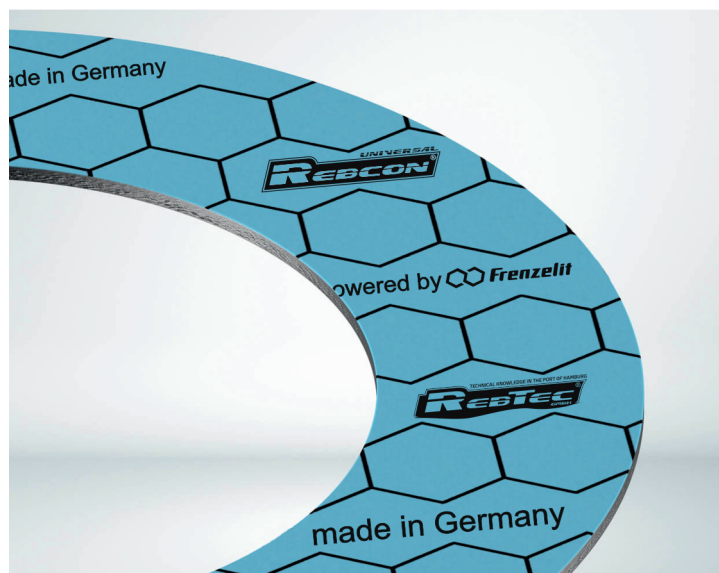
— safe zone — maximum application limits\*

The temperature and pressure recommendations in the graphs apply to gaskets with a thickness of 2.0 mm and raised face flanges. Higher stresses are possible when thinner gaskets are used! The information provided must therefore be considered as estimates that are on the safe side rather than as specific operational limits.

\*Example for aqueous dilutions, oils, noncritical acids and alkalis. Exact data for specific individual cases please contact our applications engineering specialists.

#### Warranty exclusion

In view of the variety of different installation and operation conditions and application and process engineering options, the information given in this prospectus can only provide approximate guidance and cannot be used as basis for warranty claims.



## Material data

### General Information

Approvals and tests	BS 7531 Grade Y, WRAS, DVGW, Drinking water acc. to the Elastomer guideline ("KTW"), W270
Colour	blue
Treatment	anti-stick coating

Physical properties		Standard	Unity	Value *
Gasket thickness 2.0 mm				
Density		DIN 28 090-2	[g/cm³]	> 1.7
Residual stress	175°C	DIN 52 913	[N/mm²]	27
	300°C	DIN 52 913	[N/mm²]	22
Compressibility		ASTM F 36 J	[%]	9
Recovery		ASTM F 36 J	[%]	45
Specific leakage rate		DIN 3535-6	[mg/(m·s)]	0.08
Tensile strength transverse		DIN 52 910	[N/mm²]	7.5
Fluid resistance		ASTM F 146		
ASTM IRM 903	5 h/150 °C			
Weight change			[%]	10
	Thickness change		[%]	4
ASTM Fuel B	5 h/23 °C			
Weight change			[%]	11
	Thickness change		[%]	9
Leachable chloride content		QS-001-133	[ppm]	≤ 150

\* Mode (typical value)

The physical characteristic values are determined on uncoated material

### Product data (tolerances acc. to DIN 28091-1)

- Dimensions [mm] 1500 x 1000
- Thicknesses [mm] 0,5 / 1.0 / 1.5 / 2.0 / 3.0 / 4.0



professional gaskets

