

The versatile rubber lining system

CHEMOLINE 4

CHEMOLINE 4 is a black soft rubber material based on bromobutyl rubber (BIIR). This rubber lining system is available in three vulcanization options depending on application conditions and usage. All options carry the German Institute for Construction Engineering approval. This approval ensures protection for organic surface of storage tanks subject to the German Water Ecology Act.

Application areas

The broad range of chemical resistance properties of **CHEMOLINE 4** has made it very popular worldwide for the use as surface protection in many different market segments. These range from chemical to steel, minerals processing to flue gas cleaning and many others.



Flue gas scrubber



Pipe segment

Typical fields of use

- Flue gas scrubbers
- Steel and concrete storage vessels for highly corrosive chemicals
- Agitation cups and agitators
- Crystallisation and condensation reactors
- Pipe work

Advantages

- Superior resistance against acids and alkalis
- Very good gas and water vapour diffusion values
- Excellent heat resistant properties
- Available in different vulcanization options

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Product properties

Product characteristics	<ul style="list-style-type: none"> Bromobutyl rubber (BIIR)
Application options	<ul style="list-style-type: none"> CHEMOLINE 4 CN – Cold bonding of pre-vulcanised sheets with Cement BC 3004 bonding system CHEMOLINE 4 A – Hot vulcanisation in autoclaves with Cement TC 5000 bonding system CHEMOLINE 4 B – Self-vulcanisation at temperatures above 25°C with Cement TC 5000 bonding system

Technical data

			CHEMOLINE 4 A	CHEMOLINE 4 B	CHEMOLINE 4 CN
Tensile strength	ISO 37-2005 (DIN 53504)	MPa	≥ 5 ¹⁾	≥ 5 ¹⁾	≥ 5 ¹⁾
Elongation at break	ISO 37-2005 (DIN 53504)	%	≥ 370 ¹⁾	≥ 370 ¹⁾	≥ 370 ¹⁾
Hardness	ISO 868-2003 (DIN 53505)	Shore	50 ± 5 ¹⁾	50 ± 5 ¹⁾	50 ± 5 ¹⁾
Resilience elasticity	ISO 4462-1986 (DIN 53512)	%	≥ 6	≥ 6	≥ 6
Abrasion	DIN ISO 4649-2006	mm ³	≤ 320	≤ 320	≤ 320
Specific weight	DIN EN ISO 1183	g/cm ³	1.27 ± 0.02	1.27 ± 0.02	1.27 ± 0.02
Peel strength on steel	DIN ISO 813	N/mm	≥ 4	≥ 4	≥ 4
Temperature resistance	–	°C	≤ 100	≤ 100	≤ 85
Water vapour permeability	DIN 53122	g/m ² d	0.04	0.04	0.04
Storage stability	–	Months	6 (12 at +5°C)	2 (6 at +5°C)	24

¹⁾ Vulcanisation in the press. For technical data on other vulcanising procedures see the individual product information.

Product delivery options	<ul style="list-style-type: none"> Rubber sheets in PE-film wound on cardboard tubes. Hanging free in cardboard boxes. Length: 10,000 mm, width: 1,100 mm, thickness: 2 - 6 mm
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