

## PRODUCT INFORMATION

### CHEMOLINE 61 (IIR / PVC)

#### General Properties

**CHEMOLINE 61** is a black, soft rubber material with a polymer basis of butyl rubber and polyvinyl chloride, which can be vulcanized in the workshop using hot air or alternatively using steam in autoclaves.

The most salient features of the lining material **CHEMOLINE 61** are its excellent chemical resistance to mineral acids, bases, aqueous phases and in particular, its outstanding resistance to acids having an oxidizing effect, such as chromic acid or nitric acid.

This lining material is applicable in a temperature range extending from - 30 °C to + 80 °C.

#### Application Examples

On account of its excellent chemical resistance to acids having an oxidising effect, the lining material **CHEMOLINE 61** is widely used as an industrial surface protection system in the chemical and steel industry and particularly in electroplating. With the application of the lining material **CHEMOLINE 61**, steel components that are exposed to severe chemical, mechanical and thermal process conditions, such as in acid pickling plants (pickling tanks) and electroplating tanks for example, can be effectively protected against corrosion.

#### Shelf life

**CHEMOLINE 61** lining material can be stored without any loss of quality for a period of up to 4 month at a maximum temperature of + 25 °C.

Under cool storage conditions (at a temperature of +5 °C) the material can be stored for a period of 12 months.

The conditions specified within DIN standard 7716 must be observed.

#### Application to Steel Surfaces

The lining material **CHEMOLINE 61** is bonded onto steel by using the two-coat TIP TOP bonding system **PRIMER PR 500-1 / PRIMER S 500-2** in combination with **CEMENT TC 5000**.

The standards EN 14879-1, EN 14879-4 and EN ISO 12944-4 have to be observed.

#### Spark test

The spark test (Holiday Test) is carried out according to the EN 14879-4. An earthed high-voltage spark tester Elmed-Isotest II RT or alternatively the Wegener AC Spark Tester WEG 20/22 must be used.

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The test voltage is to be set as follows:

Lining Material	Test Voltage
<b>CHEMOLINE 61</b> un-vulcanised	5 KV / mm (max. 20 KV)
<b>CHEMOLINE 61</b> vulcanised	5 KV / mm (max. 20 KV)

## Mechanical / Physical Characteristics

Properties	Unit	Test Standard	Value
Polymer	ISO 1629	IIR/PVC	
Resistance to tear determined using:	[MPa] Bar S2	DIN 53504	$\geq 4$ <sup>1)</sup>
Elongation at tear determined using:	[%] Bar S2	DIN 53504	$\geq 500$ <sup>1)</sup>
Hardness	[Shore A]	DIN 53505	$62 \pm 5$ <sup>1)</sup> $62 \pm 5$ <sup>2)</sup>
Rebound resilience	[%]	DIN 5 512	$\geq 12$
Density	[g/cm <sup>3</sup> ]	EN ISO 1183-1	$1.18 \pm 0.02$
Bonding strength on steel	[N/mm]	DIN ISO 813	$\geq 3$
Surface resistivity	[ $\Omega$ ]	DIN IEC 60093	$1 \times 10^{12}$
Volume resistivity	[ $\Omega \cdot \text{cm}$ ]	DIN IEC 60093	$3 \times 10^{11}$
Spark voltage	[KV/mm]	EN 14879-4	5
Operating temperature	[°C]		$\leq 80$

<sup>1)</sup> Vulcanization in the press

<sup>2)</sup> Vulcanization in the autoclave

The information given above is based on approved test results and represents statistical product data, which does not however necessarily guarantee the specific properties of the product.

We reserve the right to changes to technical specifications without prior notice, provided they ensure technical improvement without major modifications of the product itself.

## Basic Program **CHEMOLINE 61**

### Availability and dimensions

Rubber sheets in PE-film rolled up on cardboard cores. Packaged in cardboard boxes, suspended freely.

Length [mm]	Width [mm]	Thickness [mm]	Order Quantities [m.]	Product-No.
10,000	1,100	2	11	528 2036
10,000	1,100	3	11	207328
10,000	1,100	4	11	211528
10,000	1,100	5	11	215528
10,000	1,100	6	11	219528

This data sheet is for informational purposes only. All data provided herein is based on in-depth research and testing, however no liability whatsoever can be assumed. Since we are constantly endeavouring to up-date and improve our products, we recommend noting the index and issue date indicated on this data sheet and to inquire as to whether any properties have changed in the interim. This Product Information Sheet replaces all prior issues. Please contact our Technical Consultant for detailed information in case of ambiguities.