

PRODUCT INFORMATION

CHEMOLINE 10 (CIIR/CR)

General properties

CHEMOLINE 10 is a black soft rubber material on the basis of chlorobutyl rubber and chloroprene rubber (polymer blend based on CIIR/CR).

CHEMOLINE 10 is bonded onto steel, concrete and many other substrates by means of special TIP TOP contact adhesives; according to the cold bonding system.

As the pre-vulcanisation (intermolecular cross-linkage) has already been carried out during manufacturing, neither subsequent thermal treatment nor longer waiting times until complete vulcanisation are required after completion of the lining operation – the lining material can be put under chemical, mechanical and thermal stress immediately after the lining is completed.

The **CHEMOLINE 10** lining material enables surface protection of structural steel and concrete parts of any size.

The essential properties of soft rubber material **CHEMOLINE 10** are its strong resistance to mineral acids, bases and aqueous medium.

Above mentioned lining material can be used within temperatures of – 40 °C up to + 85 °C, other conditions should be confirmed by REMA TIP TOP.

Fields of application

Due to its resistance to numerous chemicals the lining material **CHEMOLINE 10** is worldwide used in the chemical, chlorine and steel industry, in mineral processing installations as well as in the field of environmental protection. Here, structural steel parts subject to high chemical, mechanical and thermal stress, such as storage bins, filter cells, mixing tanks, crystallizers and FGD plants can be protected from corrosion by using the **CHEMOLINE 10** lining material. The main area of use is the corrosion protection in Phosphoric acid plants.

Shelf life

CHEMOLINE 10 lining material can be stored without any loss of quality for a period of up to 18 month at a maximum temperature of + 25 °C, subject to re-inspection thereafter. The DIN standard 7716 has to be observed.

Application on steel

The lining material **CHEMOLINE 10** is bonded onto steel by using the CFC-free adhesive system METAL PRIMER PR 304 / CEMENT BC 3004. The standards DIN EN 14879-1, DIN EN 14879-1 and DIN EN ISO 12944-4 have to be observed.

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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.

The test voltage has to be set as follows:

Lining material	Test voltage
CHEMOLINE 10	2.5 KV/mm (max. 12,5 KV)

Mechanical - Physical Characteristics

Properties	Units	Standard	Value ^{*A}
Polymer		DIN ISO 1629	CIIR / CR
Tensile strength determined on:	[MPa] S2 Bar	DIN 53504	≥ 2
Elongation at break determined on:	[%] S2 Bar	DIN 53504	≥ 400
Hardness	[Shore A]	DIN 53505	50 ± 5
Density	[g/cm ³]	DIN EN ISO 1183-1	1.30 ± 0,02
Bonding strength on steel	[N/mm]	DIN ISO 813	≥ 3
Surface resistant	[Ω]	DIN IEC 60093	1.5 x 10 ⁸
Electrical resistant	[Ω . cm]	DIN IEC 60093	5 x 10 ⁷
Test voltage	[KV/mm]	DIN EN 14879-4	2.5
Constant operating temperature	[° C]		≤ 85

*A) Technological values at time of delivery

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 10**

Availability and dimensions

Rubber sheets with PE separating sheets on hard cardboard core. Hanging freely in cardboard boxes.

Length [mm]	Width [mm]	Thickness [mm]	Quantity [m ²]	Product-No.
20.000	1.100	2	22	528 3963
10.000	1.100	3	11	528 3970
10.000	1.100	4	11	528 4230
10.000	1.100	5	11	528 4247
10.000	1.100	6	11	528 4254

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.

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