

PRODUCT INFORMATION

CHEMOLINE 8 (CSM/PVC)

General properties

CHEMOLINE 8 is a brown soft rubber material on the basis of chlorosulfonated polyethylene and polyvinyl chloride (CSM/PVC) that can be vulcanised in the workshop by means of hot air or steam in the autoclave alternatively. The essential properties of soft rubber material **CHEMOLINE 8** are its strong resistance to mineral acids, bases, aqueous phases and especially its excellent resistance to oxidizing media like sodium hypochlorite or chromic acid.

Above mentioned lining material can be used within temperatures of – 20 °C up to maximum + 80 °C.

Fields of application

Due to its resistance to numerous chemicals the lining material **CHEMOLINE 8** is worldwide used as surface protection in the chemical, chlorine and steel industry as well as in the electroplating. Here, structural steel parts subject to high chemical, mechanical and thermal stress, such as storage bins, filter cells, mixing tanks, galvanic tanks and chloralkali process plants can be protected from corrosion by using the **CHEMOLINE 8** lining material.

By reason of its diversity in resistance to chemicals **CHEMOLINE 8** is especially used for lining of storage and transportation bins for chlorine bleaching (lining of tank wagons).

Additional we have to emphasize the high suitability for application where different goods (hydrochloric acid, soda lye, chlorine bleaching) as well as with mixed and old acids are transported.

General Approval of German Institute for Construction Technology (DIBt)

The lining material **CHEMOLINE 8** is approved by the German Institute for Construction Technology (DIBt) as an organic surface protection for storage tanks that are subject to the German water resources law (WHG 19 I)

CERTIFICATE No.: Z-59.22-234

Shelf life

CHEMOLINE 8 lining material can be stored without any loss of quality for a period of up to 6 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.

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Application on steel

CHEMOLINE 8 is bonded onto steel by using the two-coat TIP TOP bonding system **Primer HG 1 / Primer HG 2** in combination with **CEMENT TC 6000**.

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

The seams are bonded with **CHEMO 8 SOLUTION**. The REMA TIP TOP processing instructions 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.

The test voltage has to be set as follows:

Lining material	Test voltage
CHEMOLINE 8 un-vulcanised	5 KV / mm (max. 20 KV)
CHEMOLINE 8 vulcanised	5 KV / mm (max. 20 KV)

Mechanical - Physical Characteristics

Properties	Units	Standard	Value
Polymer		ISO 1629	CSM/PVC
Tensile strength determined on:	[MPa] S2 Bar	DIN 53504	≥ 8 ¹⁾
Elongation at break determined on:	[%] S2 Bar	DIN 53504	≥ 300 ¹⁾
Hardness	[Shore A]	DIN 53505	68 ± 5 ¹⁾ 73 ± 5 ²⁾
Rebound resilience	[%]	DIN 53512	≥ 20
Density	[g/cm ³]	EN ISO 1183-1	1.20 ± 0.02
Bonding strength on steel	[N/mm]	ISO 813	≥ 4
Surface resistivity	[Ω]	DIN IEC 60093	4.5×10^{11}
Volume resistivity	[$\Omega \cdot \text{cm}$]	DIN IEC 60093	1.5×10^{11}
Test voltage	[KV/mm]	EN 14879-4	5
Operating temperature	[° C]		≤ 80
Maximum surface pressure	[MPa]		2

¹⁾ Press vulcanisation

²⁾ Vulcanisation in the autoclave

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

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

Basic Program **CHEMOLINE 8**

Availability and dimensions

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

Length [mm]	Width [mm]	Thickness [mm]	Quantity [m ²]	Product-No.
10.000	1.100	2	11	528 3736
10.000	1.100	3	11	528 3774
10.000	1.100	4	11	528 3815
10.000	1.100	5	11	528 3853
10.000	1.100	6	11	528 3891

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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