B-TEAM
CORROSION PROTECTION
Coat for Every Industry!

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PRODUCT INFORMATION

CHEMOLINE 3 F CN (CR)

General properties

CHEMOLINE 3 F CN is a black soft rubber material on the basis of chloroprene rubber (CR), equipped with a bonding layer, which is reactive and easy to bond.

This lining material is bonded onto steel flanges by means of special TIP TOP contact adhesives, according to the cold bonding system.

As the vulcanisation (intramolecular 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 3 F CN*** lining material enables surface protection of steel flanges as an alternative to hard rubber (***CHEMONIT 31*** pre-vulcanised).

The essential properties of the ***CHEMOLINE 3 F CN*** lining material are its strong resistance to mineral acids, bases, aqueous phases, aromatic oils and especially its excellent resistance to media containing a high percentage of solids.

Above mentioned lining material can be used within temperatures of – 30 °C up to + 85 °C.

Fields of application

CHEMOLINE 3 F CN lining material is only used for flange lining.

Shelf life

CHEMOLINE 3 F CN lining material can be stored without any loss of quality for a period of up to 24 months at a maximum temperature of + 25 °C.

The Standard DIN 7716 has to be observed.

Application on steel

The lining material ***CHEMOLINE 3 F CN*** is bonded onto steel by using the CFC-free adhesive system ***METAL PRIMER PR 304*** in combination with ***CEMENT BC 3004***. Alternatively the ***METAL PRIMER PR 300*** / ***CEMENT BC 3000*** can be used.

The standards EN 14879-1, EN 14879-4 and 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 3 F CN vulcanised	2,5 KV / mm (max. 12,5 KV)

Mechanical - Physical Characteristics

Properties	Units	Standard	Value
Polymer		ISO 1629	CR
Tensile strength determined on:	[MPa] S2 Bar	DIN 53504	⩾10 [1)]
Elongation at break determined on:	[%] S2 Bar	DIN 53504	⩾200 [1)]
Hardness	[Shore A]	DIN 53505	70 ± 5
Rebound resilience	[%]	DIN 53512	⩾20
Abrasion	[mmł]	ISO 4649	≤ 200
Density	[g/cmł]	EN ISO 1183-1	1.47 ± 0.02
Bonding strength on steel	[N/mm]	ISO 813	≥ 4
Test voltage	[KV/mm]	EN 14789-4	2.5
Operating temperature	[° C]		≤ 85
Permissible surface pressure	[MPa]		2

[1)] Press vulcanisation

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.

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Basic Program *CHEMOLINE 3 F CN*

Availability and dimensions

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

Length [mm]	Width [mm]	Thickness [mm]	Quantity [m²]	Product-No.
10.000	1.100	2	11	70828
10.000	1.100	3	11	70928
10.000	1.100	4	11	71628