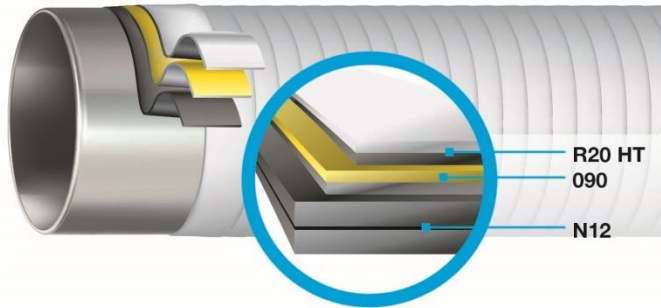


BUTYLEN System 2

BUTYLEN-N12/-090/-R20 HT

Product information



Special advantages:



For operating temperatures up to +50°C (+122°F).



Fulfills EN 12068-C 50.



Highly resistant thanks to three-tape design.



Proven over many years in countless pipeline projects.

Robust field coating system for the corrosion prevention of pipelines and pipeline components.

DEKOTEC GmbH stands for experience, quality and reliability in the field of corrosion prevention and sealing technology. The success is based on the development of the Petrolatum-Tape which was already developed in 1927 as the first product worldwide for passive corrosion prevention of pipelines. We establish and guarantee the highest quality standards with technically trend-setting products. Research, development and production take place exclusively in Germany. Our employees are continuously implementing safe and individual solutions in a personal cooperation with the customer.

Description

BUTYLEN System 2 is a robust field coating system for the permanent corrosion prevention of pipelines and pipeline components.

BUTYLEN System 2 is a highly stressable system based on its design of three **BUTYLEN** tapes, which has proven itself outstandingly in many construction measures for district heating and supply lines.

BUTYLEN System 2 features an ÖVGW approval for the stress class C 50 in accordance with EN 12068. The requirements for this standard are exceeded.

Standard designation:

- EN 12068 - C 50



BUTYLEN System 2 consists of three **BUTYLEN** tapes that have been proven for a long time:

BUTYLEN-N12 as the inner tape, assumes the major corrosion prevention properties of the system. The thick butyl rubber layer of the tape equalizes unevenly formed surfaces and permits an easy processing on pipelines with small as well as large nominal pipe sizes. Due to its self-amalgamation effect in the overlapping area, BUTYLEN-N12 creates an essentially gas and water tight as well as electrically high insulating encasement.

BUTYLEN-090 is used as the middle layer in the encasement system. It is a flexible two-ply tape with a polyethylene outside layer and a butyl rubber coating positioned on the inside. The applied winding tension presses the inside tape solidly to the component surface and thus supports the self-amalgamation of the inside tape.

BUTYLEN-R20 HT is a robust two-ply tape. The solid polyethylene outside layer protects the coating against mechanical stresses.

All three **BUTYLEN** tapes can be processed efficiently with the **DEKOMAT**® wrapping devices.

Typical product properties

Property	Unit	BUTYLEN-N12 Typical value	BUTYLEN-090 Typical value	BUTYLEN-R20 HT Typical value	Test method
Carrier film color	-	-	yellow	white, black or blue	-
Butyl adhesive color inside	-	grey	grey	black	-
Butyl adhesive color outside	-	grey	-	-	-
Tape thickness	mm	≥1.2	≥0.4	≥0.5	ISO 4591 ASTM D1000
Carrier film thickness app.	mm	≥0.07	≥0.26	≥0.3	
Inside adhesive layer thickness app.	mm	≥0.7	≥0.14	≥0.2	
Outside adhesive layer thickness app.	mm	≥0.43	-	-	
Elongation at break	%	≥500	≥400	≥500	DIN 30672
Tape strength	+23°C (+73°F) N / cm	≥30	≥35	≥65	EN 12068
Dielectric strength	kV / mm	-	-	≥50	ASTM D149

Property	Unit	BUTYLEN System 2 Typical value	Required value	Test method
System design	Primer	BUTYLEN-HT Primer	-	-
	Inner tape	BUTYLEN-N12, 2 layers		
	Tensioning tape	BUTYLEN-090, 2 layers		
	Outer tape	BUTYLEN-R20 HT, 2 layers		
Total thickness	mm	≥4.2	-	-
Specific electrical insulation resistance	Ohm m ²	≥10 ¹⁰	≥10 ⁸	EN 12068
Peel strength to steel	+23°C (+73°F)	≥15	≥10	EN 12068
	+50°C (+122°F)	≥5	≥1	
Peel strength layer to layer	N12 / N12	≥30	≥15	EN 12068
	N12 / 090	≥25	≥15	
	090 / 090	≥2	≥2	
	R20 HT / R20 HT	≥3	≥2	
Indentation resistance (residual layer thickness)	+23°C (+73°F) (10 MPa) mm	≥0.6	≥0.6	EN 12068
Impact resistance	J	>20	≥15	EN 12068
Cathodic disbondment (radius)	mm	<9	<20	EN 12068
Lap shear strength	on steel N/cm ²	15	≥5	EN 12068

BUTYLEN tapes can be easily applied manually. The processing with the original **DEKOMAT**[®] wrapping devices is even more efficient. For **BUTYLEN** tapes with widths of > 50 mm, we recommend the use of the **DEKOMAT**[®] wrapping device to guarantee an excellent processing quality.

Ordering information and packaging

	Core diameter (mm)	Width (mm)	Tape length (m)	Tape area (m ²)	Content per box			
					Number of rolls	Total tape area (m ²)	Total tape length (m)	App. Weight (kg)
BUTYLEN-N12	41	50	10	0.5	12	6.0	120	10
		75		0.75	12	9.0	120	15
		100		1.0	6	6.0	60	10
BUTYLEN-090	41	50	15	0.75	12	9.0	180	6.5
		75		1.125	12	13.5	180	10.0
		100		1.5	6	9.0	90	6.5
BUTYLEN-R20 HT	41	30	15	0.45	18	8.1	270	5.0
		50		0.75	12	9.0	180	5.5
		75		1.125	12	13.5	180	8.0
		100		1.5	6	9.0	90	5.5
		50	30	1.5	12	18	360	11.0
		75		2.25	12	27	360	17.0
		100		3.0	6	18	180	11.0
		150		4.5	6	27	180	17.0

Additional lengths and widths are available on request.

Storage

When stored in its original, unopened packaging, **BUTYLEN-N12/-090/-R20 HT** can be stored for at least 60 months after the manufacturing date.

Storage temperature: ≤ +50°C (+122°F)

Store in a dry location and do not rest anything against the front of the product.

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