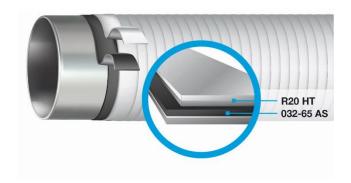
BUTYLEN System 5 & System 6 BUTYLEN-032-65 AS/-R20 HT



Product information



Special advantages:



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



Modular systems: fulfils EN 12068-B50.



Modular systems: fulfils EN 12068-C50.



High cost effectiveness.

Robust two-tape field-joint 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 5 and **BUTYLEN System 6** are field-joint encasement systems for the permanent corrosion prevention of buried pipelines and pipeline components.

BUTYLEN System 5 and BUTYLEN System 6 consist modularly of the corrosion prevention tape **BUTYLEN-032-65 AS** and the mechanical protection tape **BUTYLEN-R20 HT.** Depending on the number of tape layers of the outside tape, the stress classes **B** or **C** of EN 12068 are achieved.

Based on this modular design, these identical **BUTYLEN** tapes can be used to establish the technically and economically optimal system in accordance with the requirements of the construction project.

BUTYLEN System 6 features an ÖVGW approval for stress class C 50 in accordance with EN 12068.

Standard designation:

■ EN 12068 - B 50 & C 50



BUTYLEN-032-65 AS as the inner tape, assumes the major corrosion prevention properties of the system. BUTYLEN-032-65 AS is a coextruded 3-ply tape with an asymmetrical layer design. This design with a relative thin tape thickness of 0.65 mm provides nevertheless a thick butyl rubber coating on the pipe surface and therefore it provides an outstanding adhesive con-

nection even if the pipe surface is uneven. Due to the butyl rubber layer at the upper side of the tape, a self-amalgamation effect will be achieved in the overlapping area and an essentially gas and watertight as well as electrically high insulating encasement will be created. The low tape thickness results also in a good processability at pipe elbows and fittings.

BUTYLEN-R20 HT is a robust twoply tape. The solid polyethylene outside layer protects the encasement against mechanical stresses.

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



Typical product properties

Property	Unit BUTYLEN-032-65 AS Typical value		BUTYLEN-R20 HT Typical value	Test method	
Carrier film color	-	black	white, black, or blue	-	
Butyl adhesive color inside	-	grey	black	-	
Butyl adhesive color outside	-	black	-	-	
Tape thickness	mm	≥0.65	≥0.5		
Carrier film thickness app.	mm	≥0.18	≥0.3	ISO 4591	
Inside adhesive layer thickness app.	mm	≥0.39	≥0.2	ASTM D1000	
Outside adhesive layer thickness app.	mm	≥0.08	-		
Elongation at break	%	≥550	≥500	DIN 30672	
Tape strength +23°C (+73°F)	N/cm	≥50	≥65	EN 12068	
Dielectric strength	kV/mm	-	≥50	ASTM D149	

Property			BUTYLEN	BUTYLEN	Required value			
		Unit	System 5 System 6 Typical value Typical value		Class B	Class C	Test method	
System design	Primer		BUTYLEN-	HT Primer	-	-	-	
	Inner tape	_	BUTYLEN- 2 layers	032-65 AS 2 layers	-	-	-	
	Outer tape		BUTYLEN-R20 HT 2 layers 3 layers		-	-	-	
Total thickness		mm	≥2.3	≥2.8	-	-	-	
Stress class		-	B 50	C 50			EN 12068	
Specific electrical insula	ation resistance	Ohm m ²	≥10 ¹⁰	≥10 ¹⁰	≥10 ⁶	≥10 ⁸	EN 12068	
Peel strength on steel	+23°C (+73°F)	N/cm	≥15	≥15	≥4	≥10	EN 12068	
	+50°C (+122°F)	IN/CIII	≥2	≥2	≥0.4	≥1	EN 12000	
Peel strength on PE	+23°C (+73°F)	N/cm	≥10	≥10	≥2	≥4	EN 12068	
Peel strength layer to layer	032-65 AS / 032-65 AS	N/cm	≥22	≥22	≥8	≥15	EN 12068	
	R20 HT / R20 HT	IN/CIII	≥3	≥3	≥2	≥2		
Indentation resistance (residual thickness)	+23°C (+73°F) (10 MPa)	mm	≥0.6	≥0.6	≥0.6 (1 MPa)	≥0.6 (10 MPa)	EN 12068	
Impact resistance		J	≥10	≥15	≥8	≥15	EN 12068	
Cathodic disbondment resistance		mm	<2	<2	<20	<20	EN 12068	
Lap shear strength	on steel	N/cm ²	≥8	≥8	≥5	≥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	Width Tape [mm] [m]		T	Content per box			
	diameter (mm)		Tape area (m²)	Number of rolls	Total tape area (m²)	Total tape length (m)	App. weight (kg)	
BUTYLEN-032-65 AS	41	30	15	0.45	18	8.1	270	6.0
		50		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		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
	41	100		1.5	6	9.0	90	5.5
	41	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-032-65 AS/-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.

DEKOTEC GmbH