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# PSI Anti-Corrosion Tapes



Pipeline Accessories

# PSI Anti-Corrosion Tapes

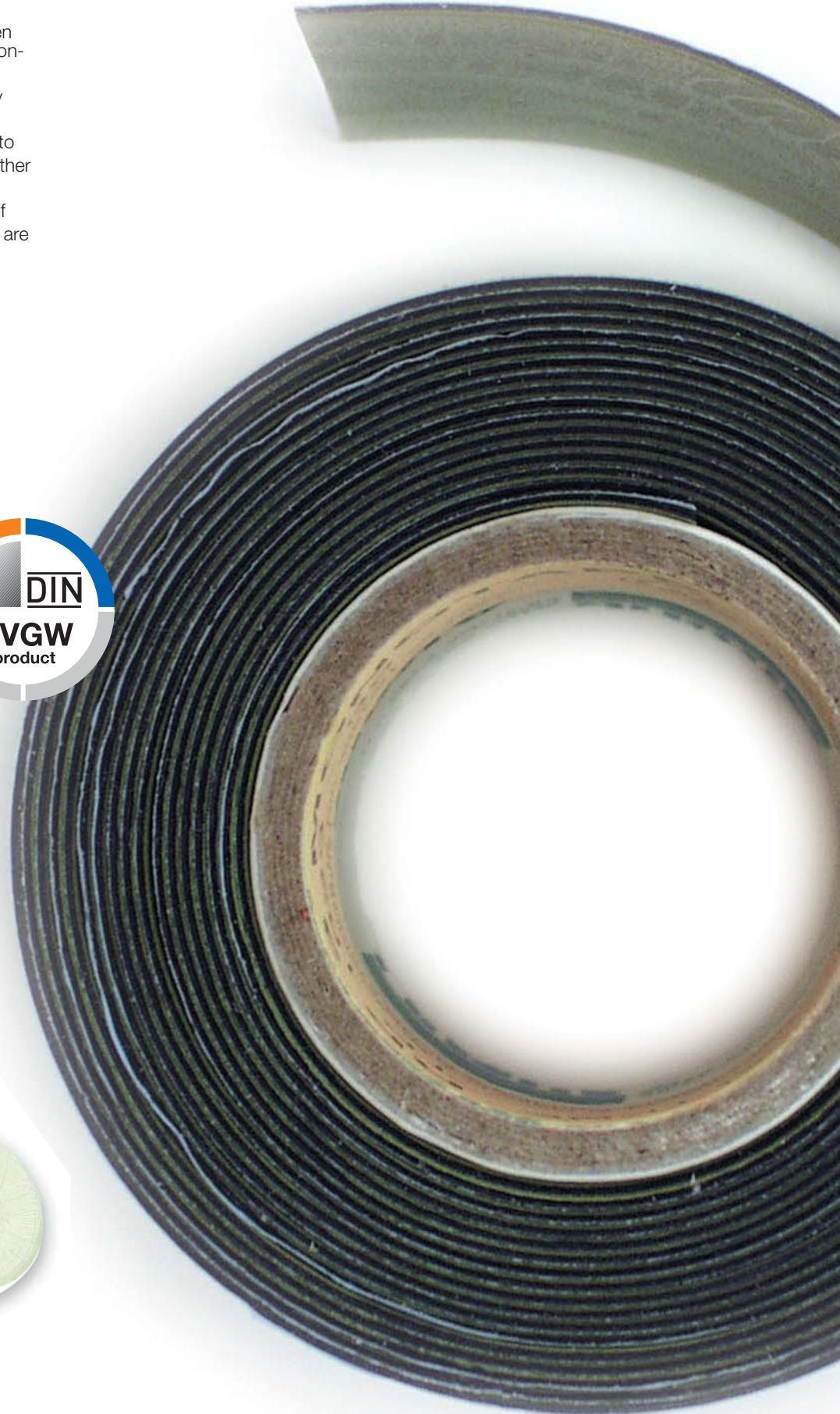
## The Systems



**PSI anti-corrosion tapes** have been specially developed for high-quality, on-site corrosion protection for joints, in cases where the pipeline has already been installed.

The material is easy, safe and quick to apply on welded joints, bends and other complicated shapes.

The systems fulfil the requirements of DIN 30672 and EN 12068, and they are also DVGW-approved.



# PSI Anti-Corrosion Tapes

## The Systems



### Duo40 extra **one-tape-system**

Class C/50 according to EN 12068/  
DIN 30672, four layers

**DVGW-Reg.-No.: NV-5180BR0557**  
**ÖVGW-Reg.-No.: G2.945**

**Duo40 extra**, 2 x 50% overlap,  
**PSI-Primer HT extra**  
Total thickness 3,2 mm

**System for high quality coating** of field-welded joints, complete pipes, bends and complicated shaped parts in all pipe diameters.  
The system is suitable when high shear resistance is required. It is possible to wrap by hand, although we recommend wrapping by machine.

**Duo 40 extra** is a very effective asymmetric three layer anti-corrosion tape, which amalgamates to a homogeneous coating. The soft butyl rubber allows application over a wide area without leaving any gaps.

Adhesive  
PE-carrier  
Adhesive

### MonoTop40 **one-tape system**

Class B/30 according to  
EN 12068/DIN 30672

**DVGW-Reg.-No.: NV-5180BQ0144**

**MonoTop40**, 1 x 50% overlap,  
**PSI-Primer P27**  
Total thickness 2.03 mm

System for application on field-welded joints, complete pipes, bends and complicated shaped parts up to ND 600. Because of the system's **high flexibility**, it is perfect for hand wrapping without a wrapping machine.

MonoTop 40 is a very strong anti-corrosion tape which amalgamates to a homogeneous coating with a very flexible plastic surface.

PE backing  
Adhesive

# PSI Anti-Corrosion Tapes

## Technical Data



### PSI Anti-Corrosion Tape

Properties	Test specification	Duo40 extra	MonoTop40
Adhesive basis		Butyl rubber Mixture	Butyl rubber Mixture
Carrier basis		Polyethylene	Polyolefins
Colour		yellow/black	black
Total thickness		0.80 mm	1,016 mm
Adhesive thickness inside		0.57 mm	0.610 mm
Adhesive thickness outside		0.03 mm	
Carrier thickness		0.20 mm	0.406 mm
Peel strength	DIN EN 12068		70 N/10 mm
Tensile strength	DIN EN 12068	11 N/mm	
Elongation at break	DIN EN 12068	>600%	400%
core diameter		41 mm	76 mm
Adhesion			
To primed steel at 23°C	DIN EN 12068	21 N/10 mm	30 N/10 mm
To primed steel at 50°C	DIN EN 12068	3 N/10 mm	3 N/10 mm
To itself	DIN EN 12068	50 N/10mm	20 N/10mm
Electrical resistance	ASTM D 1000		40 KV/mm
Water absorption*	ASTM D 257		0,60%
Application temperature**		-35 – 70 °C	-35 – 70 °C
Operating temperature		-35 – 85 °C	-35 – 85 °C
* Measurement on steel bonding tape ** Tape temperature min. 10°C			



### PSI-Primer:

Properties	Test specification	Unit	Type PSI-HT extra	Type PSI-P27
Colour			black	black
Density	ASTM 1298	g/cm <sup>3</sup>	0.78	0.83
Solvent content	ISO 1515	%	20	27
Viscosity (4 mm needle)	ASTM D 1200	sec..	50	35
Flash point	ABEL IP 170	°C	-12	-12
Consumption		l/m <sup>2</sup>	approx. 0.2 l	approx. 0.2 l
Application temperature		°C	-30° up to 60°	-30° up to 60°

# PSI Anti-Corrosion Tapes

## Requirement Specifications



Requirement specifications for welded joints with PSI anti-corrosion tape.  
Calculated width 400 mm, including overlap with existing coating.

Pipe diameter ND metric		Pipe (ISO)	Tapewidth metric	Primer- consumption per welded joint	One wrap with 50% overlap (two layers)		Two wraps with 50% overlap (four layers)	
ND	inch	mm	mm	litre	meters	m <sup>2</sup>	meters	m <sup>2</sup>
25	1	33.7	30	0.01	3.05	0.09	6.10	0.18
40	1 1/2	48.3	30	0.02	4.37	0.13	8.74	0.26
50	2	60.3	30	0.02	5.46	0.16	10.91	0.33
65	2 1/2	76.1	50	0.02	4.13	0.21	8.26	0.41
80	3	88.9	50	0.03	4.83	0.24	9.65	0.48
100	4	114.3	50	0.04	6.21	0.31	12.41	0.62
150	6	168.3	50	0.05	9.14	0.46	18.28	0.91
200	8	219.1	50	0.07	11.90	0.59	23.79	1.19
250	10	273.1	100	0.09	7.41	0.74	14.83	1.48
300	12	323.9	100	0.10	8.79	0.88	17.59	1.76
350	14	355.6	100	0.11	9.65	0.97	19.31	1.93
400	16	406.4	100	0.13	11.03	1.10	22.06	2.21
450	18	457	100	0.14	12.41	1.24	24.81	2.48
500	20	508	100	0.16	13.79	1.38	27.58	2.76
600	24	610	100	0.19	16.56	1.66	33.12	3.31
700	28	711	100	0.22	19.30	1.93	38.60	3.86
800	32	813	100	0.26	22.07	2.21	44.14	4.41
900	36	914	100	0.29	24.81	2.48	49.62	4.96
1000	40	1016	100	0.32	27.58	2.76	55.16	5.52
1100	44	1118	100	0.35	30.35	3.04	60.70	6.07
1200	48	1219	100	0.38	33.09	3.31	66.18	6.62
1300	52	1321	100	0.42	35.86	3.59	71.72	7.17
1400	56	1422	100	0.45	38.60	3.86	77.21	7.72
1500	60	1524	100	0.48	41.37	4.14	82.74	8.27
1600	64	1626	100	0.51	44.14	4.41	88.28	8.83

The above-mentioned quantities include an allowance of approx. 8%, because in practice slightly more than 50% overlap is wrapped and existing coatings with different thicknesses and diverse welded-joint systems, for example welded socket joints, are not recorded separately in this table.

The indicated primer consumption is based on average historical values and can differ according to the application method and the type of primer.



# PSI Anti-Corrosion Tapes

## ALU TOP 30



**PSI ALU TOP 30 provides protection against corrosion and UV for pipelines laid above ground.**

Alu Top 30 is a high-quality, self adhesive corrosion protection tape (cold applied), based on butyl rubber with an outer layer consisting of plastic-modified aluminium. The material offers the optimum in UV protection; the tape can be slightly stretched during use without breaking the aluminium layer. The system is particularly suitable for coating entire pipe sections, bends and irregularly shaped parts and for providing protection against UV rays. Thanks to its exceptional flexibility, it is particularly suitable for application by hand. As a rule, the system is treated with primer V and is wound on with a 50% overlap.

### Storage:

The product should be protected against direct sun exposure and should be stored with 10°C to 30°C. Rolls should be kept dry and standing on end.



### Technical data

	PSI Alu Top 30	Test method
Mass per unit area:	app. 1.9kg/m <sup>2</sup>	
Overall thickness:	1.5mm	DIN 52123
Exterior colour:	Aluminium-Blank	
Softening point:	> 95°C	DIN 52011
Cold bending process:	> -40°C	DIN 52123
Adherence to metal:	38 N/mm <sup>2</sup>	DIN ISO 4624
Temperature resistant:	-30°C – approx. +80°C	
Tear strength:	29N	DIN 52123
DVGW-approval	no	



To

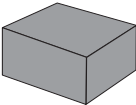
From

**PSI Products GmbH**  
**Fax +49 (0) 7473/37 81 87**

Just copy form, fill out the volumes and fax to PSI

Description	Core Ø in mm	Width in mm	Length in m/Roll	pcs./ carton	Art. no.	pcs.	€/roll*	sum
DUO40 extra yellow	41	30	15	18	4-034-21903			
DUO40 extra yellow	41	50	15	12	4-034-21904			
DUO40 extra yellow	41	100	15	6	4-034-21905			
DUO40 extra black	41	30	15	18	4-034-21900			
DUO40 extra black	41	50	15	12	4-034-21901			
DUO40 extra black	41	100	15	6	4-034-21902			
DUO40 extra black	76	100	50	3	4-034-21954			
Mono Top40	76	30	15	40	4-034-21949			
Mono Top40	76	50	15	24	4-034-21950			
Mono Top40	76	100	15	12	4-034-21951			
Alu Top30	76	50	15	24	4-034-21927			
Alu Top30	76	100	15	12	4-034-21928			
			Litre/Can	kg/Can				
PSI Primer HT extra			1	1	4-034-21956			
PSI Primer HT extra			5	5	4-034-21957			
PSI Primer P27			1	1	4-034-21964			
PSI Primer P27			5	5	4-034-21965			
Wrapping machine for tape width up to 100 mm. for core 41 mm					4-034-21966			
Wrapping machine for big rolls					4-034-21967			
Adapter for wrapping machine 76 mm core					4-034-21969			

Butylfiller to adjust unevennesses and filling of cavities

	Description	pcs./carton	Art. no.	pcs.	€/pcs*	sum
	Butyl filler á 1kg	10	4-034-21945			



	Width	Length	pcs./ carton	Art. no.	pcs.	€/roll*	sum
<b>ISO-Petrolatuntape PE - 1,5 mm 2 Layers-system</b>							
Roll	50 mm	10 m	24	4-034-21970			
Roll	100 mm	10 m	12	4-034-21971			
Roll	200 mm	10 m	6	4-034-21972			
<b>ISO-Bitumentape GG</b>							
Roll	100 mm	10 m		4-034-21980			
Roll	200 mm	10 m		4-034-21981			
Roll	300 mm	10 m		4-034-21982			
						€/can*	
Primer V		5 l can		4-034-21986			
Primer V		1 l can		4-034-21985			
Other width on request							

\* Prices according to valid pricelist

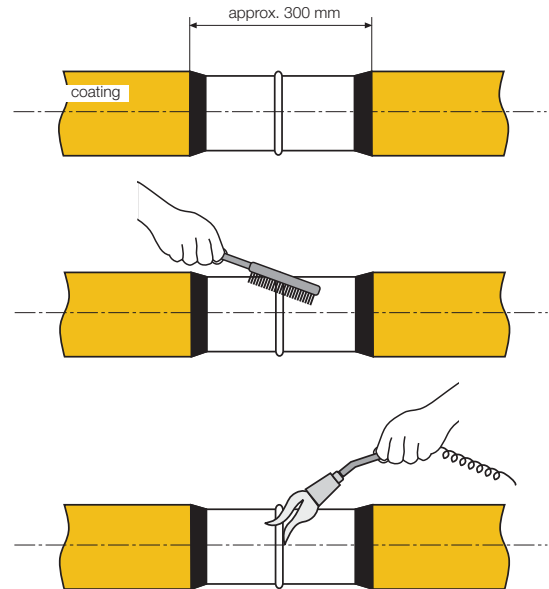
Date/Signature

**Cleaning:**

Prepare the pipe according to DVGW-instructions GW 15: **dry**, clean, grease-free and rust-free.

Chamfer the edges of the existing coating, to guarantee that cavities are clear.

Roughen the existing coating, at least 100 mm, with an abrasive cloth.



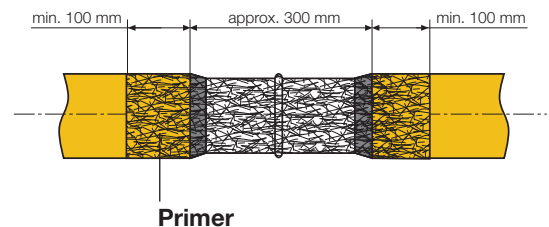
**Drying**

**Primer:**

Make sure PSI-primer is well **stirred**. Primer is applied to the dried and cleaned surfaces, including at least 100 mm of the existing coating on both sides.

The **curing time** is approx. 10 minutes - please make a touch test to check!

When the primer has been applied for more than 4 hours, the pipe must be primed again. When the joint has been dried with a flame for a second time, the pipe must be primed again



**Tape application in general:**

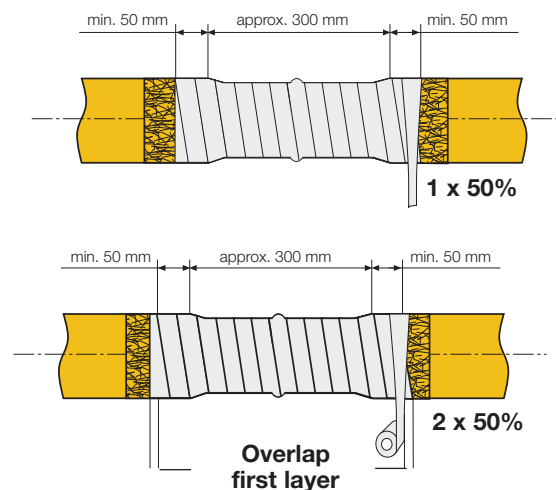
All tapes are applied around the pipe using a spiral wrapping under constant strong tension with at least 50% overlap. The protective foil must be removed. The existing coating must be overlapped by at least 50 mm. For systems which require a double wrap, the outside layer must extend beyond the inside layer.

Please note that the tapes, as well as the pipe surface, have a temperature of at least 10C°.

**Application of the systems:**

**Duo 40 extra:** one-tape system, class C/50, according to EN12068/DIN 30672, two layer with 50% overlap (4 layers)  
**PSI Primer HT extra**

**MonoTop 40:** one-tape system, class B/30 acc.to EN12068/  
**PSI Primer P27** DIN 30672 one layer with 50% overlap (2 layers)



# PSI Corrosion protection tapes Certificates



<b>DIN-DVGW-Baumusterprüfzertifikat</b> <b>DIN-DVGW type examination certificate</b>	
<b>NV-5180BS0234</b> <small>Registriernummer registration number</small>	
<b>Anwendungsbereich</b> <small>field of application</small>	Produkte der Gas- und Wasserversorgung <small>products of gas and water supply</small>
<b>Zertifikatinhaber</b> <small>owner of certificate</small>	PSI Products GmbH Ulrichstraße 25, D-72116 Mössingen
<b>Vertreiber</b> <small>distributor</small>	PSI Products GmbH Ulrichstraße 25, D-72116 Mössingen
<b>Produktart</b> <small>product category</small>	Schmier-/Dicht-/Betriebsmittel: Korrosionsschutzband (5180)
<b>Produktbezeichnung</b> <small>product description</small>	Bitumen-Korrosionsschutzumhüllung
<b>Modell</b> <small>model</small>	PSI-Bitumenbinde
<b>Prüfberichte</b> <small>test reports</small>	Kontrollprüfung Labor: 07/117/5180/02 vom 15.06.2007 (EBI) Baumusterprüfung: 05/356/5180/1 vom 31.03.2006 (EBI)
<b>Prüfgrundlagen</b> <small>basis of type examination</small>	DIN 30672 (01.12.2000) DIN EN 12068 (01.03.1999)
<b>Ablaufdatum / AZ</b> <small>date of expiry / file no.</small>	15.06.2012 / 07-0161-GNE
<p>18.07.2007 Rie A-1/2  <small>Datum, Bearbeiter, Blatt, Letter of certification body  date, issuer by, sheet, head of certification body</small></p> <p>DVGW-Zertifizierungsinstitut - von der Deutschen Akkreditierungsstelle Technik (DA Tech) e.V. akkreditiert für die Konformitätsbewertung von Produkten der Gas- und Wasserversorgung  <small>DVGW Certification Body - accredited by Deutsche Akkreditierungsstelle Technik (DA Tech) e.V. for conformity assessment of products of gas and water supply</small></p> <p style="text-align: right;"> <small>DVGW Deutsche Vereinigung des Gas- und Wasserfaches e.V. Technisch-wissenschaftlicher Verein  Zertifizierungsinstitut  Josef-Wilmer-Straße 1-3  53123 Bonn  Telefon: +49 (228) 91 88 807  Telefax: +49 (228) 91 88 993</small> </p>	




<b>DIN-DVGW-Baumusterprüfzertifikat</b> <b>DIN-DVGW type examination certificate</b>	
<b>NV-5180BR0557</b> <small>Registriernummer registration number</small>	
<b>Anwendungsbereich</b> <small>field of application</small>	Produkte der Gas- und Wasserversorgung <small>products of gas and water supply</small>
<b>Zertifikatinhaber</b> <small>owner of certificate</small>	PSI Products GmbH Ulrichstraße 25, D-72116 Mössingen
<b>Vertreiber</b> <small>distributor</small>	PSI Products GmbH Ulrichstraße 25, D-72116 Mössingen
<b>Produktart</b> <small>product category</small>	Schmier-/Dicht-/Betriebsmittel: Korrosionsschutzband (5180)
<b>Produktbezeichnung</b> <small>product description</small>	Korrosionsschutzumhüllung bestehend aus Voranstrich und Kunststoffband
<b>Modell</b> <small>model</small>	DUO40 Extra mit Primer 16 HT Extra
<b>Prüfberichte</b> <small>test reports</small>	Kontrollprüfung Labor: 11/091/5180/02 vom 29.07.2011 (EBI)
<b>Prüfgrundlagen</b> <small>test basis</small>	DIN EN 12068 (01.03.1999) DIN 30672 (01.12.2000)
<b>Ablaufdatum / AZ</b> <small>date of expiry / file no.</small>	04.09.2016 / 11-0479-GNV
<p>23.08.2011 Rie A-1/2  <small>Datum, Bearbeiter, Blatt, Letter of certification body  date, issuer by, sheet, head of certification body</small></p> <p>DVGW CERT GmbH ist von der DAKKS nach DIN EN 45011:1998 akkreditierte Stelle für die Zertifizierung von Produkten der Energie- und Wasserversorgung.  <small>DVGW CERT GmbH is an accredited body by DAKKS according to EN 45011:1998 for certification of products for energy and water supply industry.</small></p> <p style="text-align: right;"> <small>DVGW CERT GmbH  Josef-Wilmer-Straße 1-3  53123 Bonn  Telefon: +49 228 91 88 888  Telefax: +49 228 91 88 993  eMail: info@dvgw-cert.com</small> </p>	




A-2/2		NV-5180BR0557
<b>Typ</b> <small>type</small>	<b>Technische Daten</b> <small>technical data</small>	<b>Bemerkungen</b> <small>remarks</small>
DUO40 Extra mit Primer 16 HT Extra	Belastungskategorie: C Dauerbetriebstemperatur: bis +50 °C Normbezeichnung: Umhüllung EN 12068-C 50 bzw. DIN 30672-C 50	
<b>Verwendungshinweise / Bemerkungen</b> <small>hints of utilization / remarks</small> Verarbeitung: kalt zu verarbeitendes Korrosionsschutzband in 4 Lagen auf Primer 16 HT Extra aufzubringen Verträglichkeit: Polyethylen (PE)- und Epoxid (EP)-Verkürzung		

A-2/2		NV-5180BS0234
<b>Typ</b> <small>type</small>	<b>Technische Daten</b> <small>technical data</small>	<b>Bemerkungen</b> <small>remarks</small>
PSI-Bitumenbinde	Belastungskategorie: B Dauerbetriebstemperatur: +30 °C Normbezeichnung: Umhüllung EN 12068-B 30 bzw. DIN 30672-B 30	
<b>Verwendungshinweise / Bemerkungen</b> <small>hints of utilization / remarks</small> Verarbeitung: warm zu verarbeitendes Korrosionsschutzband mit ISO-Voranstrich V		

# PSI Corrosion protection tapes Certificates



 	
<b>DIN-DVGW-Baumusterprüfzertifikat</b> <b>DIN-DVGW type examination certificate</b>	
<b>NV-5180BQ0144</b> <small>Registrierungsnummer registration number</small>	
<b>Anwendungsbereich</b> <small>field of application</small>	Produkte der Gas- und Wasserversorgung <small>products of gas and water supply</small>
<b>Zertifikatinhaber</b> <small>owner of certificate</small>	PSI Products GmbH Ulrichstraße 25, D-72116 Mössingen
<b>Vertreiber</b> <small>distributor</small>	PSI Products GmbH Ulrichstraße 25, D-72116 Mössingen
<b>Produktart</b> <small>product category</small>	Schmier-/Dicht-/Betriebsmittel: Korrosionsschutzband (5180)
<b>Produktbezeichnung</b> <small>product description</small>	Mehrschichtige Kunststoff-Korrosionsschutzband mit Voranstrich
<b>Modell</b> <small>model</small>	Primer FP P 27; MonoTop 40
<b>Prüfberichte</b> <small>test reports</small>	Kontrollprüfung Labor: 10/140/5180/05 vom 25.08.2010 (EBI)
<b>Prüfgrundlagen</b> <small>basis of type examination</small>	DIN 30672 (01.12.2000) DIN EN 12068 (01.03.1999)
<b>Ablaufdatum / AZ</b> <small>date of expiry / file no.</small>	15.02.2015 / 10-0263-GNV
<p>27.08.2010 Rie A-1/2 <i>J. B. Wimmer</i>  <small>Datum, Bearbeiter, Blatt, Leiter der Zertifizierungsstelle date, issued by, sheet, head of certification body</small></p> <p>DVGW CERT GmbH - von der Deutschen Akkreditierungsstelle Technik (DA Tech) in der TGA GmbH akkreditiert für die Konformitätsbewertung von Produkten der Gas- und Wasserversorgung  <small>DVGW CERT GmbH - accredited by Deutsche Akkreditierungsstelle Technik (DA Tech) in the TGA GmbH for conformity assessment of products of gas and water supply</small></p> <p> DVGW CERT GmbH          Josef-Wimmer-Straße 1-3          53123 Bonn          Telefon: +49 228 91 88-888          Telefax: +49 228 91 88-993          eMail: info@dvgw-cert.com</p> <p><small>DAT-ZE-009/96-02</small></p>	

 	
<b>DIN-DVGW-Baumusterprüfzertifikat</b> <b>DIN-DVGW type examination certificate</b>	
<b>NV-5180BR5755</b> <small>Registrierungsnummer registration number</small>	
<b>Anwendungsbereich</b> <small>field of application</small>	Produkte der Gas- und Wasserversorgung <small>products of gas and water supply</small>
<b>Zertifikatinhaber</b> <small>owner of certificate</small>	PSI Products GmbH Ulrichstraße 25, D-72116 Mössingen
<b>Vertreiber</b> <small>distributor</small>	PSI Products GmbH Ulrichstraße 25, D-72116 Mössingen
<b>Produktart</b> <small>product category</small>	Schmier-/Dicht-/Betriebsmittel: Korrosionsschutzband (5180)
<b>Produktbezeichnung</b> <small>product description</small>	Petrolatium-Korrosionsschutzumhüllung
<b>Modell</b> <small>model</small>	PSI-Petrolatiumbinde 1,5
<b>Prüfberichte</b> <small>test reports</small>	Kontrollprüfung Labor: 11/091/5180/06 vom 29.07.2011 (EBI)
<b>Prüfgrundlagen</b> <small>test basis</small>	DIN EN 12068 (01.03.1999) DIN 30672 (01.12.2000)
<b>Ablaufdatum / AZ</b> <small>date of expiry / file no.</small>	25.08.2016 / 11-0479-GNV
<p>23.08.2011 Rie A-1/2 <i>J. B. Wimmer</i>  <small>Datum, Bearbeiter, Blatt, Leiter der Zertifizierungsstelle date, issued by, sheet, head of certification body</small></p> <p>DVGW CERT GmbH ist von der DAKKS nach DIN EN 45011:1998 akkreditierte Stelle für die Zertifizierung von Produkten der Energie- und Wasserversorgung.  <small>DVGW CERT GmbH is an accredited body by DAKKS according to EN 45011:1998 for certification of products for energy and water supply industry.</small></p> <p> Deutsche Akkreditierungsstelle          D-ZE-14039-01-01          Telefon: +49 228 91 88-888          Telefax: +49 228 91 88-993          eMail: info@dvgw-cert.com</p>	

A-2/2		NV-5180BR5755
Typ <small>type</small>	Technische Daten <small>technical data</small>	Bemerkungen <small>remarks</small>
PSI-Petrolatiumbinde 1,5	Belastungskategorie: A Dauerbetriebstemperatur: bis 30 °C Normbezeichnung: Umhüllung EN 12068-A 30 bzw. DIN 30672-A 30	
<b>Verwendungshinweise / Bemerkungen</b> <small>hints of utilization / remarks</small>		
Verarbeitung: kalt zu verarbeitendes Korrosionsschutzband, Wicklung mit 50 % Überlappung (2 Lagen)		

A-2/2		NV-5180BQ0144
Typ <small>type</small>	Technische Daten <small>technical data</small>	Bemerkungen <small>remarks</small>
Primer FP P 27; MonoTop 40	Belastungskategorie: B Dauerbetriebstemperatur: max. +30 °C	
<b>Verwendungshinweise / Bemerkungen</b> <small>hints of utilization / remarks</small>		
Normbezeichnung: Umhüllung EN 12068-B 30 bzw. DIN 30672-B 30 Verarbeitung: 1-fache Wicklung mit 50% Überlappung (2 Lagen) kalt auf geprüfem Untergrund aufzubringen		