



**BIRKAN**

Intelligent offset & flexographic materials

SINCE 1924

Product Catalogue  
**Offset**

## BIRKAN Offset Products

### Offset printing blankets

- Sheetfed printing 4
- Webfed printing 5
- Special applications 6

### Varnishing

- Varnishing blankets and plates 7
- Varnishing: Other products 7

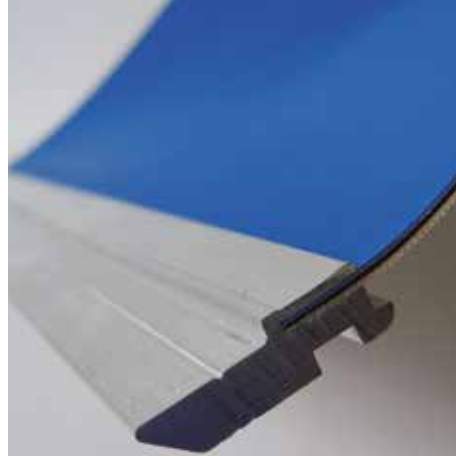
### Underpacking material

- Underpacking foils, self-adhesive 8
- Underpacking foils, uncoated 9
- Underpacking sheets, calibrated 10
- Underpacking or die stamping blanket 10
- Press board, calibrated 10

### Measurement instruments, tools

- Thickness gauge 11
- Packing gauges 11
- Shore hardness tester 11
- Torque wrench 11

More products on demand. Subject to modifications.



### Delivery ready-to-print

Blanket conversion in our internal production facility is handled by professionals, creating blanks – by means of state-of-the-art machinery – that are accurate to the millimetre in all sizes and formats and for all types of press. An adhesive foil coating and all forms of punching or barring are naturally also a part of our service. Continuous quality inspections throughout the conversion process mean every customer is assured a premium product.



## Quality, service and advice from the rubber printing blanket's inventor

### Four generations of blanket experts



**BIRKAN** was founded in 1924 by Ferdinand Birkner and letterpress printer Alois Kandlbinder (photo) in order to launch the latter's just patented revolutionary inven-

tion: a rubber blanket with mounting straps that was going to considerably simplify printing processes. For decades, the „Triumph“ blanket was a worldwide bestseller, paving the way for the success of numerous other **BIRKAN** products. The company is today run by Kandlbinder's heirs in the third and fourth generation.

### Service and competence

Several decades of experience in the field of printing blankets have fashioned us into experts not only in the complete spectrum of substrates, but also in all offset printing technologies and processes. Our warehouse is always well stocked and guarantees punctual deliveries worldwide. A large picking area enables delivery times to be reduced to a minimum. Printers and specialised dealers in more than 100 countries benefit from **BIRKAN's** full service offer. Our service portfolio comprehends mounting and cylinder

measurements, consulting in blanket tensioning and printing pressure matters, and more.

### Printing plates and direct laser engraving

Since 2012, **BIRKAN** has also supplied laser engraved plates to manufacturers of flexible packaging, labels and varnishes. A state-of-the-art Hell Gravure Systems fibre laser, a PremiumSetter S1700, has been installed specifically for this purpose at the facility in Eching and forms the heart of our new Direct Laser Engraving division. The renowned flexo plate specialist, Hans Kappl GmbH & Co. KG, is also part of **BIRKAN GROUP** and provides pre-press services and printing plates.

### More efficient printing

Please do not hesitate to contact us for individual solutions – our Customer Service is always willing to listen to your needs. On many occasions in the past we have succeeded in developing innovative solutions that are exactly tuned to specific requirements. By analysing your requirements most carefully and then selecting the optimum blankets from our broad assortment we not only increase your efficiency but also help you save time and money.

## Compressible blankets for sheetfed printing

Ref. no.	Product name	Nominal thickness (mm)	Micro blanket hardness Shore A	Roughness (Ra)	Surface colour	Inks		
						Sheeted	Carton	High speed
<b>For conventional inks</b>								
025234	BIRKAN Aeropress Blue	1.96	48°	1.1 µm	blue	○	●	
025796	BIRKAN Aeropress Plus	1.96	52°	0.6 µm	green	●	●	●
010800	BIRKAN Dot-Master	1.96	64°	0.7 µm	emerald	●	●	●
010810	BIRKAN Dot-Master RS (rougher surface)	1.96	64°	1.3 µm	emerald	●	●	●
010351	BIRKAN S.C. 900 E	1.96	63°	0.7 µm	blue	●	●	○
<b>For UV inks</b>								
025233	BIRKAN Aeropress Premium UV	1.96	49°	1.1 µm	violet	●	●	●
025255	BIRKAN Aeropress Special UV red	1.96	55°	0.8 µm	red	●	●	○
025230	BIRKAN Aeropress Special UV violet	1.96	55°	0.6 µm	violet	●	●	●
010750	BIRKAN Dot-Master Brilliant UV	1.96	75°	0,4 µm	dark blue	●	●	●
025257	BIRKAN Masterprint UV	1.96	55°	0.8 µm	red	●	●	
010725	BIRKAN UV Compressible EPDM	1.96	62°	0.7 µm	orange	●	●	○
<b>For alternated use of inks (conventional and UV inks)</b>								
025258	BIRKAN Aeropress 4-ply N.D.	1.96	59°	0.6 µm	blue	●	●	●
025452	BIRKAN Masterprint Hybrid	1.96	55°	0.7 µm	blue	●	●	●
010715	BIRKAN S.C. 800 ground	1.96	68°	1.0 µm	turquoise	●	●	●
025350	BIRKAN Superflex Plus	1.96	55°	0.9 µm	black		●	

● highly recommended ○ suited

## Compressible blankets for webfed printing

Ref. no.	Product name	Nom. thickn. (mm)	Micro hardness Shore A	Roughness (Ra)	Surface colour	Inks		
						convent.	UV	Hybrid
<b>Heatset</b>								
049200	BIRKAN 5000	1.70	65°	0.5 µm	blue			
010863	BIRKAN 5700	1.70	64°	0.6 µm	green			
<b>Coldset</b>								
049500	BIRKAN 8894	1.96	61°	0.5 µm	green			
010865	BIRKAN Headliner	1.96	70°	1.2 µm	blue			
025640	BIRKAN Journal	1.96	60°	1.4 µm	blue			
<b>Narrow web printing</b> (Self-adhesive coating in various thicknesses is available for all blankets as an option)								
025253	BIRKAN Aeropress Special UV red	1.65	55°	0.8 µm	red		●	
025254		1.70						
025323	BIRKAN Masterprint EL	1.70	52°	0.6 µm	green	●	○	●
025455	BIRKAN Masterprint EPDM	1.70	55°	0.6 µm	violet		●	
010710	BIRKAN S.C. 800 ground	1.70	68°	1.0 µm	turquoise	●	○	●
006135	BIRKAN Super Goldseal	1.35	68°	0.9 µm	blue	●	○	
008250	BIRKAN UV 1001	1.70	55°	1.0 µm	black		●	○
010720	BIRKAN UV Compressible EPDM	1.70	62°	0.7 µm	orange		●	
<b>Self-adhesive blankets</b> (Note: Calculation width 1550 mm)								
010355	BIRKAN Super Compressible 95 GS	0.95	75°	0.7 µm	turquoise	●	○	
010374	BIRKAN Super Compressible 100 GS	1.00						
010375	BIRKAN Super Compressible 105 GS	1.05						
010356	BIRKAN Super Compressible 95 UV	0.95	70°	0.7 µm	orange		●	
010357	BIRKAN Super Compressible 100 UV	1.00						

● highly recommended ○ suited

## Blankets for special printing applications

Ref. no.	Product name	Nominal thickness (mm)	Micro hardness Shore A	Roughness (Ra)	Surface colour	Inks		
						Conventional	UV	Hybrid
<b>Metal printing</b>								
025255	BIRKAN Aeropress Special UV red	1.96	55°	0.8 µm	red		●	
010790	BIRKAN Dot-Master Metal	1.70	64°	0.7 µm	blue	●		
010800	BIRKAN Dot-Master	1.96	64°	0.7 µm	emerald	●		
025452	BIRKAN Masterprint Hybrid	1.96	55°	0.7 µm	blue		●	●
025257	BIRKAN Masterprint UV	1.96	55°	0.8 µm	red		●	
010854	BIRKAN Metal 2, self-adhesive	1.96	70°	1.0 µm	turquoise	●		
<b>Plastic card, CD and DVD printing</b> (Self-adhesive coating in various thicknesses is available as an option)								
025255	BIRKAN Aeropress Special UV red	1.96	55°	0.7 µm	red		●	
025230	BIRKAN Aeropress Special UV violet	1.96	55°	0.6 µm	violet		●	
010810	BIRKAN Dot-Master RS	1.96	65°	1.3 µm	emerald	●		
010725	BIRKAN UV Compressible EPDM	1.96	62°	0.7 µm	orange		●	
<b>Plastic and pot printing</b>								
049592	X-treme Plus	1.69	79°	–	ocre		●	
049590	X-treme	1.69	80°	–	beige		●	
049300	Butyl Conventional	1.95	60°	–	black		●	
212002	Plastoprint	1.90	60°	–	white		●	
<b>Banknote printing</b>								
025550	BIRKAN Intagliolimpression N.D.	0.50	–	–	black			
025560	BIRKAN Intagliolimpression Plus	0.50	–	–	black			
049020	BIRKAN Simultan (conventional construction)	1.70	–	–	blue	●		●
025700	Glass bead blanket "Black Pearl"	0.65	–	–	black			
026600	Glass bead blanket "Standard"	0.65	–	–	black			

● highly recommended ○ suited

## Varnishing blankets and plates

Ref. no.	Product name	Nom. thickness (mm)	For	Carrier	Stencil depth (mm)	Surface				Coating	
						Colour	Polymer	Rubber	ground	Aqueous	UV
025256	BIRKAN Aeropress UV Strip	1.95	Plotter	Fabric	0.70	red		●	●		●
010700	BIRKAN Super Strip	1.95	Plotter	Fabric	0.80	turquoise		●	●	●	●
010697	BIRKAN Super Strip 2	1.15	Plotter	Pol./Fabric	0.80	turquoise		●	●	●	●
025236	Grand Canyon	1.95	Plotter	Fabric	0.70	blue		●	●	●	●
031682	Folacoat® Advance	1.15	Plotter	Polyester	0.80	white	●			●	●
031681	Folacoat® Advance	1.35	Plotter	Polyester	1.00	white	●			●	●
031521	Folacoat® Basic	1.15	Plotter	Polyester	0.80	fuchsia	●			●	●
031523	Folacoat® Basic	1.35	Plotter	Polyester	0.97	fuchsia	●			●	●
031514	Folacoat® Plus PET	1.15	Plotter	Polyester	0.75	pink	●			●	●
031506/A	Folacoat® Plus PET	1.35	Plotter	Polyester	0.95	pink	●			●	●
009110	Varniplate V 70	1.15	Plotter	Polyester	0.80	orange	●			●	○
009135	Varniplate V 70	1.35	Plotter	Polyester	1.00	orange	●			●	○
009150	Varniplate 195 compressible	1.95	Plotter	Polyester	0.80	green	●			●	●

## Varnishing: Other products

Ref. no.	Product name	Thickness (mm)	Notes
—	BIRKAN Coating Form Cylinder Underpacking	0.80 – 2.10 (as required)	<ul style="list-style-type: none"> <li>● Self-adhesive or uncoated</li> <li>● Upper surface layer: fabric</li> </ul>
—	Coating form, produced with CAD plotter	1.15 / 1.30 / 1.35 / 1.95	<ul style="list-style-type: none"> <li>● All sizes up to XXL format</li> </ul>
—	Laserline CSL	1.15 / 1.35 / 1.70	<ul style="list-style-type: none"> <li>● Laser engraved elastomer plate</li> <li>● For particular fine details</li> </ul>

## Underpacking foils, polyester, self-adhesive (Plate cylinder)

Thickness (mm)	Ref. no.	Description
<b>Folabase H48</b>		
0.08	031108	• Self-adhesive
0.10	031110	• Dimensionally stable polyester
0.12	031112	• Tear resistant
0.14	031114	• High swell resistance
0.16	031116	
0.18	031118	
0.20	031120	
0.22	031122	
0.24	031124	
0.26	031126	
0.28	031128	
0.30	031130	
0.32	031132	
0.35	031132	
0.40	031140	
0.45	031145	
0.50	031150	



Please note for Folabase H48 / Soft A / H48 RB:

Calculation width: 1300 mm  
Effective width: 1270 mm

Thickness (mm)	Ref. no.	Description
<b>Folabase Soft A</b>		
0.35	031735/SKL	• Self-adhesive
0.40	031740/SKL	• Dimensionally stable polyester with soft polyurethane surface layer
0.45	031745/SKL	
0.50	031750/SKL	• Self-healing surface in the event of paper jams
0.55	031755/SKL	
0.60	031760/SKL	• Good bending characteristics
0.70	031770/SKL	
0.75	031775/SKL	• Adhesive system with high chemical resistance, tack and shear strength
0.80	031780/SKL	
0.90	031790/SKL	• Formats smaller than 50 x 70 cm: Minimum quantity 10 pieces
0.95	031795/SKL	
1.10	031794/SKL	
1.30	031799/SKL	
1.40	031796/SKL	

## Underpacking foils, polyester, self-adhesive (Blanket cylinder)

Thickness (mm)	Ref. no.	Description
<b>Folabase H48 RB</b>		
0.14	031914	• Anti-slip coating
0.16	031916	• Increased chemical resistance, better tack and shear strength
0.18	031918	
0.20	031920	• Corrosion-inhibiting additives
0.23	031923	
0.25	031925	

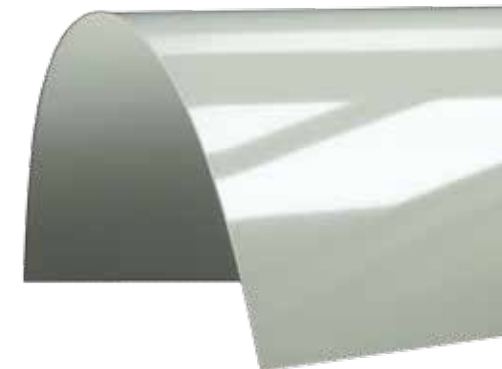
## Underpacking foils, polyester, uncoated

Thickness (mm)	Ref. no.	Description
<b>Folabase U</b>		
0.04	031204	• Uncoated
0.08	031208	• Dimensionally stable polyester
0.10	031210	• Tear resistant
0.12	031212	• High swell resistance
0.14	031214	
0.16	031216	
0.18	031218	
0.20	031220	
0.23	031223	
0.25	031225	
0.28	031228	
0.30	031230	
0.35	031235	

Please note for Folabase U / Soft U:

Calculation width: 1300 mm  
Effective width: 1300 mm

Thickness (mm)	Ref. no.	Description
<b>Folabase Soft U</b>		
0.35	031735	• Uncoated
0.40	031740	• Dimensionally stable polyester with soft polyurethane surface layer
0.45	031745	
0.50	031750	• Self-healing surface in the event of paper jams
0.55	031755	
0.60	031760	• Good bending characteristics
0.70	031770	
0.75	031775	
0.80	031780	
0.90	031790	
1.05	031797	
1.10	031794	
1.30	031799	
1.45	031798	





## Underpacking sheets, calibrated

(Minimum quantity: 25 pieces per format and thickness)

Thickn. (mm)	Ref. no.	Product name	Colour
0.075	021210	Calibrated sheets	light blue
0.100	021220	Calibrated sheets	grain
0.125	021230	Calibrated sheets	light brown
0.150	021240	Calibrated sheets	brown
0.175	021250	Calibrated sheets	rose
0.200	021260	Calibrated sheets	green
0.250	021270	Calibrated sheets	golden
0.300	021280	Calibrated sheets	lemon
0.400	021290	Calibrated sheets	blue
0.500	021300	Calibrated sheets	grey







## Underpacking blankets (also suitable for die stamping)

Thickn. (mm)	Ref. no.	Product name	Colour
0.30	006030	BIRKAN BK/PO	black
0.50	006050	BIRKAN BK/PO	black
0.70	006070	BIRKAN BK/PO	black
1.00	006100	BIRKAN BK/PO	anthracite

## Press board, calibrated

Thickn. (mm)	Ref. no.	Product name	Colour
0.10 - 1.50	314010-150	Press-Span Standard	light brown
0.40 - 1.50	3142xx	Press-Span Triple Resist	green
0.80 - 1.50	3143xx	Press-Span Printmaker	light brown
0.50	314450	Press-Span Standard Soft	light bron

## Measurement instruments, tools

Ref. no.	Product name	Technical features
017100	BIRKAN thickness gauge, analog Precise and quick thickness control of blankets, underpacking sheets or foils, printing plates, papers and carton boards outside the printing press. <b>Custom-built model with an extra-high measuring force.</b>	<ul style="list-style-type: none"> <li>Measurement range 0 – 5 mm</li> <li>Reading 0,01 mm</li> <li>Depth of jaw 50 mm</li> <li>Battery free</li> <li>Dimensions 135 x 125 x 22 mm</li> </ul> 
091100	Packing gauge, electronic, M Fast, precise measurement of the height of the blanket or the printing plate over bearer or measuring ring; very easy handling	<ul style="list-style-type: none"> <li>Display in mm or inch</li> <li>Range -1,5 – 3,5 mm</li> <li>Dimensions 30 x 55 x 307 mm</li> </ul> 
091150	Packing gauge, electronic, S see M, for cylinders shorter than 350 mm	<ul style="list-style-type: none"> <li>Range -2,5 – 2,5 mm</li> <li>Dimensions 30 x 55 x 175 mm</li> </ul> 
091200	Packing gauge, electronic, L see M, additionally measurement of height difference between forme cylinder surface (varnish, flexo and letterpress printing) and measuring ring surface	<ul style="list-style-type: none"> <li>Range -0,5 – 13,5 mm</li> <li>Dimensions 30 x 65 x 500 mm</li> </ul> 
004001	BIRKAN hardness tester Shore A, analog Precise measurement of hardness grades of soft elastic materials (Rubber blankets, rubber cylinders, natural rubber products, neoprenes, polyester, soft PVC) according to DIN 53505	<ul style="list-style-type: none"> <li>Spring power 806,50 cN</li> <li>Pressure force 12,5 N</li> <li>Range 0 – 100</li> <li>Dimensions 75 x 65 x 25 mm</li> </ul> 
074100	Torque wrench For the tensioning of rubber blankets – indispensable in every press room	<ul style="list-style-type: none"> <li>Measurement range 28 – 210 Nm</li> <li>Including extension 125 mm and reducer 3/8"</li> </ul> 



### BIRKAN practice tip: Are you using the right packing?

If the pressure between the blanket cylinder and the plate cylinder is too high or too low, the life of the material could be shortened and you could experience serious problems in the pressroom. We recommend that you measure your cylinder packings regularly and check the thickness and tension values in all printing units. You can find the basic equipment for this purpose (thickness and electronic packing gauges) on this page.

Specialist for  
specialists.



A BIRKAN GROUP Company

BIRKAN GmbH  
Painhofener Strasse 11  
82279 Eching am Ammersee  
Germany  
Phone +49(0)8143-9204-0  
Fax +49(0)8143-9204-24  
info@birkan.de  
www.birkan.de