



**FJORD PAPER
FLENSBURG**

SEIT 1696

FJORD  PRINT®

**GRADE
OVERVIEW
THERMAL PAPER**

GRADE OVERVIEW

FJORD PRINT®

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**FJORD PAPER
FLENSBURG**

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TRADITION IN EVERY FIBRE

We are Fjord Paper Flensburg

A passion for paper

Hello from the far north! With decades of international experience, we are taking off under a new name. Our motto: Full speed ahead. Instead of just talking, we act - and make paper! We are continuing our success story in the very place where its production has a long tradition: on the Flensburg Fjord.

When you think of Flensburg, you immediately think of maritime flair, beer, handball and hygge. But Flensburg also includes paper. And paper - that's us: Fjord Paper Flensburg.

We are a known quantity when it comes to the global speciality paper market. Because we are building on the successes of the past under a new name - with a strong and well-coordinated team that wants to take off and leave a lasting mark.

Our claim: to show that paper can do more. Whether as thermal, inkjet or barrier paper. With in-depth know-how, modern production technology and high quality standards.

It is already clear today that a lot will happen in the coming decades. Because paper has a future! Made from sustainable raw materials and extremely versatile, it finds its application in many areas, also and especially in the age of digitalisation and energy transition. With this perspective in mind and the enthusiasm for our products, we take innovation seriously - and remain curious.

SUSTAINABILITY

Conserving resources - taking responsibility



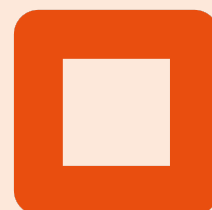
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- PEFC™ Chain-of-Custody
- DIN EN ISO 9001
- DIN EN ISO 14001
- DIN EN ISO 50001



HIGHLY RECOMMENDED


FJORD  **PRINT**®

Thermal paper



Special requirements – customised solutions

Whether for shopping receipts, tickets, bank statements or the classic fax: the areas of application for thermal paper are versatile - just like our range at Fjord Paper Flensburg. Thanks to our wide-ranging portfolio, we can fulfil every application. We have customised solutions for special requirements. For example, our range includes products with safety features or anti-fade quality. Of course, our papers are also available free of bisphenol or phenol.

Each area of application follows its own rules, places its own demands on the product. Whether it's a label or a receipt at the POS, a lottery ticket or an admission ticket. Whether it's a bank statement, train ticket or ECG printout in medical. Fjord Paper Flensburg offers the right thermal paper. Because we develop innovative **FJORD**  **PRINT**® products individually tailored to the specific application. And we offer the largest range of thermal papers for every application. Worldwide.

Direct thermal printing is a non-contact printing process using heat transfer. The many small heating elements in the thermal print head are mounted across the entire width of the print head. Therefore, a thermal printer has few moving parts and is particularly low-maintenance. The heating elements transfer heat selectively to the thermal paper. There, the functional layer of the thermal paper reacts with a colouring - the print graphic is created.

Additional topcoats on the front and back can protect the thermal coating against environmental influences and optimise the product properties with regard to specific requirements such as printability, lamination, durability, etc. Of course, graphics and barcodes of any kind can be printed in addition to text. Simple, reliable and fast.




At a glance

- Basis weight from 46 to 259 g/m²
- Several sensitivity levels
- Various protective coatings for optimum resistance (front and back)
- Excellent print image even with the fastest thermal printers
- Archivability up to 25 years
- Very good barcode readability
- Excellent printability (analogue, digital and hybrid printing methods)
- Very good further processability
- Bisphenol and phenol-free thermal papers
- Security features integrated into the base paper
- ISEGA certified for food contact
- FSC® Mix or PEFC™ certified available
- Approved by OEMs worldwide




DYNAMIC SENSITIVITY & RESISTANCE		👑	👑👑	👑👑👑	👑👑👑👑
Dynamic Sensivity		low	standard	high	maximum
Resistance against Environmental Influences, Image Stability		standard	good	very good	excellent
EXPLANATION OF APPLICATIONS					
1. Pos & Fax	Excellent printability, long shelf life and very good runnability in thermal printers predestine FJORDPRINT® grades for POS and fax applications. Our particularly light and thin as well as our phenol-free grades are in particular demand in the POS sector.				
2. Medical	In medical, important measurement results must be reproduced accurately and the paper used must be durable. FJORDPRINT® grades are convincing due to their extreme durability, perfect print head behaviour, excellent print results and their suitability for particularly fast printers.				
3. Lottery & Betting	Our thermal papers for lotteries & betting games meet many requirements. High dynamic sensitivity, best pre-printability, optimum resistance and reliable security are essential. After all, the ticket is perhaps the entrance to the world of big prizes.				
4. Transport	Whether boarding pass, train ticket or parking ticket - FJORDPRINT® grades are used throughout the transport industry because of their excellent stampability, print image stability, durability and printability. Also in mobile printing. Security features already incorporated at the factory ensure maximum protection against forgery.				
5. Admission Tickets	Our papers for the mostly colourfully printed admission tickets are of the highest quality. Excellent front and back printability as well as extreme stability and durability are crucial. Security features integrated into the base paper provide maximum protection against counterfeiting.				
6. Bank	High-quality, stable and extremely durable thermal papers are required for use in ATMs, multifunction terminals and statement printers. Our papers have been subjected to a wide range of tests and are approved by OEMs for use in numerous systems.				
7. Labels & Tags	Meeting high demands, thermal labels and tags require material that ensures a sharp printed image for accurate scanner reading. The paper must exhibit resistance to moisture, temperature fluctuations, and plasticizers.				
8. Security	Thermal paper is a special paper that can only be copied with great effort in its composition anyway. Our security elements such as coloured centres, line marks or fluorescent fibres are integrated into the base paper. This makes the paper virtually forgery-proof. A decisive argument in many applications.				
For detailed information on measurement methods see our technical data sheets.					




TICKET  TOPCOAT										
Grade	Base Weight	Caliper	Dynamic Sensitivity	Resistance	Archivability	Reverse Side Coat	UV Offset printability	Phenol free	Special Features	Applications
	gsm	μ	↕	↕	years					
DK 8067	88	86	3	3	12	thermal	✓	✓	Topcoated thermal paper with thermal functionality on both sides, typically used for bank statements (ATMs)	4,5,6
TF 1056	106	110	3	3	12				Flexo printing only, excellent heat resistance up to 100 °C (212 °F)	4,5,7
TF 1067	106	110	4	3	12		✓	✓	Topcoated thermal paper with higher substance, typically used for fruit tags	3,4,5
TF 1075	107	112	4	3	12		✓		Topcoated thermal paper with higher substance, recommended for 300 dpi resolution, typically used for Tito tickets (coinless gaming)	3,5
TF 1267	126	134	3	3	12		✓	✓	Topcoated thermal paper with higher substance, typically used for parking, public transport and as an admission ticket	4,5
 TF 1267 RP	126	134	3	2	10		✓	✓	100% FSC® Recycled Base Paper	4,5
TF 1467	138	143	3	3	12		✓	✓	Topcoated thermal paper with higher substance, typically used for parking, public transport and as an admission ticket	4,5
TF 1667	163	175	3	3	12		✓	✓	Topcoated thermal paper with higher substance, typically used for parking, public transport and as an admission ticket	4,5
TF 1767	173	187	3	3	12		✓	✓	Topcoated thermal paper with high substance, typically used for parking, public transport and as an admission ticket	4,5
 TF 1767 RP	173	190	3	2	10		✓	✓	Recycled base paper	4,5
TF 1775	174	187	4	3	12		✓		Topcoated thermal paper with high substance, recommended for 300 dpi resolution, typically used for admission, public transport and parking tickets	4,5
TF 2167	209	231	3	3	12		✓	✓	Topcoated thermal paper with very high substance, typically used for parking, public transport and admission tickets	4,5
TF 2467	224	255	3	3	12		✓	✓	Topcoat with excellent all-round properties	4,5
TF 2567	236	265	3	3	12		✓	✓	Topcoated thermal paper with very high substance, typically used for parking, public transport and admission tickets	4,5
TF 2667	259	380	3	3	12		✓	✓	Thermal paper board, typically used for coupon cards, door lock cards	4,5
TF 7056	74	77	3	3	12			✓	Flexo printing only, excellent heat resistance up to 100 °C (212 °F)	2,4
TF 7067	73	75	3	3	12		✓	✓	Topcoated thermal paper, typically used for lottery tickets printed with mobile printer	4,5,6
TF 8056	82	84	3	3	12				Flexo printing only, excellent heat resistance up to 100 °C (212 °F)	4,5,6
TF 8067	82	84	3	3	12		✓	✓	Topcoat thermal paper with excellent all-round properties.	4,5,6

The explanation of applications 1–8 can be found on page 5.







TICKET  TOPCOAT										
Grade	Base Weight	Caliper	Dynamic Sensitivity	Resistance	Archivability	Reverse Side Coat	UV Offset printability	Phenol free	Special Features	Applications
	gsm	μ	↕	↕	years					
TF 8075	83	86	4	3	12		✓		Topcoated thermal paper, recommended for 300 dpi resolution, typically used for bank statements (ATMs)	4,5,6
TF 9067	97	100	3	3	12		✓	✓	Topcoat with excellent all-round properties	4,5,7
TM 1075	111	115	4	3	12	pigment	✓		Topcoated thermal paper with higher substance, recommended for 300 dpi resolution, reverse side coating for ideal flatness under changing climatic conditions, typically used for Tito tickets (coinless gaming)	3,5
TM 1275	129	134	4	3	12	pigment	✓		Reverse side pigment coat (matt), best reverse side printability, 300 dpi resolution	4
TM 1567	149	152	3	3	12	pigment	✓	✓	Topcoated thermal paper with excellent reverse side printability in matt finish, typically used for admission tickets	4,5
TM 1767	174	184	3	3	12	pigment	✓	✓	Topcoated thermal paper with high substance and excellent reverse side printability in matte finish, typically used for admission tickets	4,5
TN 1775	176	190	4	3	12	barrier	✓		Topcoated thermal paper with high substance, recommended for 300 dpi resolution, reverse side barrier typically used for public transport tickets with magnetig stripe on the reverse side	4,5
TN 2267	220	245	3	3	12	barrier	✓	✓	Topcoated thermal paper with high substance and reverse side barrier typically used for public transport tickets with magnetic stripe on the reverse side	4,5
TN 2475	233	264	4	3	12	barrier	✓		Reverse side barrier coat, maximum sensitivity	4,5
TN 8067	84	86	3	3	12	barrier	✓	✓	Topcoat with excellent all-round properties, reverse side barrier coat	4,5,6

The explanation of applications 1–8 can be found on page 5.

TICKET  NON-TOPCOAT										
T 1034	103	112	2	2	10		✓	✓	Offset and Flexo printing, increased heat stability	4,5,7
T 1037	105	111	2	4	25		✓	✓	Thermal paper with higher substance, excellent image resistance and good offset printability, typically used for public transport tickets	4,5,7
T 1056	104	112	3	3	12				Flexo printing only	4,5,7
T 1234	125	135	2	2	10		✓	✓	Offset and Flexo printing, increased heat stability	4,5
T 1237	126	136	2	4	25		✓	✓	Thermal paper with higher substance, excellent image resistance and good offset printability, typically used for admission tickets and parking tickets	4,5
T 1434	135	145	2	2	10		✓	✓	Offset and Flexo printing, increased heat stability	4,5

The explanation of applications 1–8 can be found on page 5.





TICKET  NON-TOPCOAT										
Grade	Base Weight	Caliper	Dynamic Sensitivity	Resistance	Archivability	Reverse Side Coat	UV Offset printability	Phenol free	Special Features	Applications
	gsm	μ			years					
T 1437	136	144	2	4	25		✓	✓	Thermal paper with higher substance, excellent image resistance and good offset printability, typically used for admission tickets and parking tickets	4,5
T 1634	161	173	2	2	10		✓	✓	Offset and Flexo printing, increased heat stability	4,5
T 1717	171	185	2	2	10				Flexo printing only	4,5
T 1734	171	186	2	2	10		✓	✓	Offset and Flexo printing, increased heat stability	4,5
T 1737	173	185	2	4	25		✓	✓	Thermal paper with high substance, excellent image resistance and good offset printability, typically used for admission tickets and parking tickets	4,5
T 1837	183	200	2	4	25		✓	✓	Thermal paper with high substance, excellent image resistance and good offset printability, typically used for admission tickets and parking tickets	4,5
T 2134	208	232	2	2	10		✓	✓	Offset and Flexo printing, increased heat stability	4,5
T 2437	234	265	2	4	25		✓	✓	Thermal paper with high substance, excellent image resistance and good offset printability, typically used for admission tickets and parking tickets	4,5
T 2534	234	264	2	2	10		✓	✓	Offset and Flexo printing, increased heat stability	4,5
T 7017	71	75	3	2	10			✓	Flexo printing only	4,5
 T 7017 RP	71	75	3	2	10		✓	✓	100% FSC® Recycled Base Paper	4,5
T 7034	71	75	2	2	10		✓	✓	Offset and Flexo printing, increased heat stability	1,2,4,5
T 7037	72	75	2	4	25		✓	✓	Thermal paper with excellent image resistance and good offset printability, typically used for mobile ticketing and public transport tickets	1,2,4,5
T 7056	71	75	3	2	10			✓	High Dynamic Sensivity for Medical application printable only for Flexo	2
T 8034	75	80	2	2	10		✓	✓	Offset and Flexo printing, increased heat stability	2,4,5
T 8037	81	84	2	4	25		✓	✓	Offset and Flexo printing	2,4,5
T 8056	80	85	3	3	12			✓	High Dynamic Sensivity for Medical application printable only for Flexo	2
T 9034	94	101	2	2	10		✓	✓	Offset and Flexo printing, increased heat stability	4,5,7
TE 1634	172	179	2	2	10	pigment	✓	✓	Offset and Flexo printing, increased heat stability	4,5

The explanation of applications 1–8 can be found on page 5.



LABEL  TOPCOAT										
Grade	Base Weight	Caliper	Dynamic Sensitivity	Resistance	Archivability	Reverse Side Coat	UV Offset printability	Phenol free	Special Features	Applications
	gsm	μ	↑	↑	years					
LD 1067	106	110	3	3	12		✓	✓	Heavy grammage for label	7
LF 6067	67	68	3	3	12		✓	✓	Light-weight label	7
LF 7056	74	77	3	3	12			✓	Flexo printing only, excellent heat resistance up to 100 °C (212 °F)	7
LF 7067	73	75	3	3	12		✓	✓	Topcoat thermal paper, typically used for label, retail and logistic transportation tickets with excellent all-round properties	7
LF 8067	82	84	3	3	12		✓	✓	Topcoat with excellent all-round properties	7
LG 7037	76	72	1	4	25		✓	✓	Offset and Flexo printing, long life, excellent resistance, glossy topcoat	7
LN 8067	84	86	3	3	12	barrier	✓	✓	Reverse side barrier coat, ideal for aggressive chemicals and adhesives	7

LABEL  NON-TOPCOAT										
L 7034	71	75	2	2	10		✓	✓	Offset and Flexo printing	7
L 7037	72	75	2	4	25		✓	✓	Offset and Flexo printing	7

LABEL  LINERLESS										
L 7078 LL	68	71	4	3	12		✓	✓	Special surface treatment for low silicon absorption, high sensitivity	2,4
L 8078 LL	77	83	4	3	12		✓	✓	Special surface treatment for low silicon absorption, high sensitivity	2,4
The explanation of applications 1–8 can be found on page 5.										



POS TOPCOAT										
Grade	Base Weight	Caliper	Dynamic Sensitivity	Resistance	Archivability	Reverse Side Coat	UV Offset printability	Phenol free	Special Features	Applications
	gsm	μ			years					
PF 5056	58	60	3	3	12		✓		Flexo printing only, excellent heat resistance up to 100 °C (212 °F)	1,2,4
PF 5067	58	60	3	3	12		✓	✓	Topcoat with excellent all-round properties	1,2,4
PF 5075	58	61	4	3	12		✓		Topcoated thermal paper with low substance, recommended for 300 dpi resolution, typically used for handy terminal printers	1,2,4
PF 6056	66	68	3	3	12		✓		Flexo printing only, excellent heat resistance up to 100 °C (212 °F)	1,2,4
PF 6067	67	68	3	3	12		✓	✓	Topcoat thermal paper with excellent all-round properties, typically used for receipts printed by hand held terminals	1,2,4

POS NON-TOPCOAT										
P 5000	49	51	3	2	10			✓	Flexo printing	1
P 5034	56	57	2	2	10		✓	✓	Offset and Flexo printing	1,2
P 5037	56	59	2	4	25		✓	✓	Thermal paper high resistance and good offset printability, typically used as long life receipt	1,2,6

LOTTERY NON-TOPCOAT/TOPCOAT										
Grade	Base Weight	Caliper	Dynamic Sensitivity	Resistance	Archivability	Reverse Side Coat	UV Offset printability	Phenol free	Special Features	Applications
	gsm	μ			years					
TL 1000	81	85	2	2	10		✓	✓	Non-Topcoat	3
TL 3000	82	84	3	3	10		✓	✓	Topcoated thermal paper for lottery tickets, approved by lottery printer manufacturers (OEMs)	3
PF 5056	58	60	3	3	12		✓		Flexo printing only, excellent heat resistance up to 100 °C (212 °F), for portable lottery grades (for mobile printers)	1,2,4
PF 6067	67	68	3	3	12		✓	✓	Topcoat thermal paper with excellent all-round properties, typically used for receipts printed by hand held terminals, for portable lottery grades (for mobile printers)	1,2,4

The explanation of applications 1–8 can be found on page 5.



SECURITY NON-TOPCOAT										
Grade	Base Weight	Caliper	Dynamic Sensitivity	Resistance	Archivability	Reverse Side Coat	UV Offset printability	Phenol free	Special Features	Applications
	gsm	μ			years					
S 1037	100	105	2	4	25				Offset and Flexo printing. Thermal paper with high resistance, good stampability and UV visible security fibers, typically used as transportation ticket	4,8
S 1139 <i>CM Plus</i>	116	125	2	4+	25				Anti-fade quality	4,5,8
S 1237	120	127	2	4	25				Offset and Flexo printing. Thermal paper with high resistance, good stampability and UV visible security fibers, typically used as transportation ticket	4,5,8
S 1239	120	127	2	4	25				Thermal paper with high resistance, good stampability, anti-fade quality and UV visible security fibers, typically used as transportation ticket	4,5,8
S 1239 <i>CM</i>	129	145	2	4+	25				UV fluorescent security fibers, anti-falsification, anti-fade quality, coating mark	4,5,8
S 1339 <i>CM Plus</i>	132	143	2	4+	25				Phenol-free; without optical brightener; UV fluorescent and visible security fibres; Visible mark "Stars"	4,5,8
S 1437	140	150	2	4	25				Offset and Flexo printing. Thermal paper with high resistance, good stampability and UV visible security fibers, typically used as transportation ticket	4,5,8
S 1439	140	150	2	4+	25				Thermal paper with high resistance, forgery proof, good stampability, anti-fade quality and UV visible security fibers, typically used as transportation ticket	4,5,8
S 1439 <i>CM Plus</i>	144	160	2	4+	25				Visible security fibers, UV fluorescent security fibers, anti-falsification, coating mark, test pen reaction	4,5,8
S 8037	80	84	2	4	25				Offset and Flexo printing. Thermal paper with high resistance, good stampability and UV visible security fibers, typically used as transportation ticket	4,8
S 8039	80	84	2	4+	25				UV fluorescent security fibers, anti-falsification, anti-fade quality	4,8
S 8039 <i>CM Plus</i>	86	93	2	4+	25				Visible security fibers, UV fluorescent security fibers, anti-falsification, anti-fade quality, coating mark, test pen reaction	4,8
S 8039 <i>Plus</i>	80	84	2	4+	25				Thermal paper with high resistance, good stampability and anti-fade quality, typically used as transportation ticket	

SECURITY TOPCOAT										
CF 18 GR	199	184	3	2	10	pigment			Topcoat thermal paper with green basepaper, typically used for security admission tickets	5,8
CF 18 RD	199	184	3	2	10	pigment			Topcoat thermal paper with red basepaper, typically used for security admission tickets	5,8

The explanation of applications 1–8 can be found on page 5.



HP INDIGO										
Grade	Base Weight	Caliper	Dynamic Sensitivity	Resistance	Archivability	Reverse Side Coat	UV Offset printability	Phenol free	Special Features	Applications
	gsm	μ	↕	↕	years					
I170	173	189	2	2	10		✓	✓	Thermal side HP Indigo certified	4,5
I70	73	78	2	2	10		✓	✓	Thermal side HP Indigo certified	1,4,5,7
IE170	173	180	2	2	10		✓	✓	Thermal side and reverse side HP Indigo certified	4,5

The explanation of applications 1–8 can be found on page 5.





FJORD PAPER FLENSBURG

SEIT 1696

Certifications:

- FSC® Chain-of-Custody
- PEFC™ Chain-of-Custody
- DIN EN ISO 9001
- DIN EN ISO 14001
- DIN EN ISO 50001

Memberships:

- Klimapakt Flensburg



The mark of
responsible forestry

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