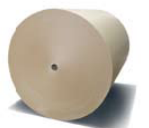


Kraft Paper Technical Data Sheet

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End Uses

SPK® high performance kraft paper has been developed for use in applications demanding high strength and superior runnability. SPK® is known for its exceptional quality and lighter shade; a preferred choice for many converters.

SPK® is used in sewn, pinch and even valve sacks; flour, sugar, seed, feed, potatoes, air filled dunnage bags and other specialty uses.

Fibre Source

CKP paper is manufactured using unbleached kraft pulp and consists of 100% Northern Canadian virgin fibre. The slow growing softwood forests provide long fibre that gives our paper its superior strength. The fibre is harvested and replanted in accordance with sustainable forest management practices. CKP paper is fully biodegradable and is an eco-friendly packaging choice.

Approvals

CKP paper is produced in compliance with FDA CONEG, and BfR food packaging requirements.

Certification

Production of CKP paper is certified in accordance to ISO 9001 quality management system, KSA Kosher, ISEGA & SGS Food Contact. CKP Forest Management System is certified to CSA, PEFC Chain of Custody & ISO 14001 environment management.

Typical Values SI

Properties	Units									Test Method
Basis Weight	gsm		75	80	90	98	105	115	145	ISO 536
Tensile	kN/m	MD	7.9	8.4	9.5	10.3	11.1	12.1	15.2	ISO 1924-3
		CD	4.5	4.8	5.4	5.9	6.2	6.4	7.8	
Tensile Index	Nm/g	MD	105	105	105	105	105	105	105	ISO 1924-3
		CD	60	60	60	60	60	56	54	
Stretch	%	MD	2.5	2.5	2.7	2.7	2.8	2.8	2.8	ISO 1924-3
		CD	8.5	8.5	8.5	8.5	8.0	8.0	8.0	
TEA	J/m ²	MD	135	140	165	185	210	235	285	ISO 1924-3
		CD	235	250	280	300	315	340	400	
TEA Index	J/g	MD	1.8	1.8	1.8	1.8	2.0	2.0	2.0	ISO 1924-3
		CD	3.1	3.1	3.1	3.1	3.0	3.0	2.8	
Tear	mN	MD	970	1040	1170	1260	1400	1500	1850	ISO 1974
		CD	1000	1100	1220	1320	1490	1640	2100	
Air Resistance	sec/100cc		15	15	15	15	15	15	15	ISO 5636-5
Cobb	g/m ² /min		30	30	30	30	30	30	30	ISO 535
Moisture	%		7.5	7.5	7.5	7.5	7.5	7.5	7.5	ISO 287

Product specifications in effect as of January 1, 2022

MD – Machine Direction CD – Cross Direction

Paper Test Conditions: Temperature = 23+/-1°C, Relative Humidity = 50%+/-2%



End Uses

SPK® high performance kraft paper has been developed for use in applications demanding high strength and superior runnability. SPK® is known for its exceptional quality and lighter shade; a preferred choice for many converters.

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Fibre Source

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Typical Values Imperial

Properties	Units									Test Method
Basis Weight	lbs/3000ft ²		46	50	55	60	65	70	90	ISO 536
Tensile	lbs/in	MD	45.1	48.0	54.0	58.8	63.1	69.1	86.8	ISO 1924-3
		CD	25.7	27.4	30.8	33.4	35.4	36.5	44.5	
Tensile Index	Nm/g	MD	105	105	105	105	105	105	105	ISO 1924-3
		CD	60	60	60	60	60	56	54	
Stretch	%	MD	2.5	2.5	2.7	2.7	2.8	2.8	2.8	ISO 1924-3
		CD	8.5	8.5	8.5	8.5	8.0	8.0	8.0	
TEA	ft lb/ft ²	MD	9.2	9.6	11.3	12.7	14.4	16.1	19.5	ISO 1924-3
		CD	16.1	17.1	19.2	20.5	21.6	23.3	27.4	
TEA Index	J/g	MD	1.8	1.8	1.8	1.8	2.0	2.0	2.0	ISO 1924-3
		CD	3.1	3.1	3.1	3.1	3.0	3.0	2.8	
Tear	g	MD	100	105	120	130	145	155	190	ISO 1974
		CD	105	110	125	135	150	165	215	
Air Resistance	sec/100cc		15	15	15	15	15	15	15	ISO 5636-5
Cobb	g/m ² /min		30	30	30	30	30	30	30	ISO 535
Moisture	%		7.5	7.5	7.5	7.5	7.5	7.5	7.5	ISO 287

Product specifications in effect as of January 1, 2022

MD – Machine Direction CD – Cross Direction

Paper Test Conditions: Temperature = 73.4+/-1.8°F, Relative Humidity = 50%+/-2%



End Uses

SPX® an extensible high performance sack kraft paper has superior Tensile Energy Absorption (TEA) in both the machine and cross direction. SPX® has excellent runnability and a very desirable shade for best print results.

SPX® has been developed for the more demanding applications such as pasted valve sacks for cement and other building materials. The superior strength of this paper allows for reduced grammage and/or number of plies.

Fibre Source

CKP paper is manufactured using unbleached kraft pulp and consists of 100% Northern Canadian virgin fibre. The slow growing softwood forests provide long fibre that gives our paper its superior strength. The fibre is harvested and replanted in accordance with sustainable forest management practices. CKP paper is fully biodegradable and is an eco-friendly packaging choice.

Typical Values SI

Properties	Units						Test Method	
Basis Weight	gsm		70	80	85	90	95	ISO 536
Tensile	kN/m	MD	6.2	7.1	7.6	8.0	8.5	ISO 1924-3
		CD	4.5	5.1	5.4	5.8	6.0	
Tensile Index	Nm/g	MD	89	89	89	89	88	ISO 1924-3
		CD	64	64	64	64	64	
Stretch	%	MD	6.8	6.8	6.8	6.8	6.8	ISO 1924-3
		CD	8.9	8.9	8.9	8.9	8.9	
TEA	J/m ²	MD	220	250	265	280	295	ISO 1924-3
		CD	245	275	290	305	320	
TEA Index	J/g	MD	3.1	3.1	3.1	3.1	3.1	ISO 1924-3
		CD	3.4	3.4	3.4	3.4	3.4	
Tear	mN	MD	860	980	1020	1070	1160	ISO 1974
		CD	920	1060	1120	1170	1300	
Air Resistance	sec/100cc		15	15	15	15	15	ISO 5636-5
Cobb	g/m ² /min		30	30	30	30	30	ISO 535
Moisture	%		7.5	7.5	7.5	7.5	7.5	ISO 287

Product specifications in effect as of January 1, 2022

MD – Machine Direction CD – Cross Direction

Paper Test Conditions: Temperature = 23+/- 1°C, Relative Humidity = 50%+/-2%



End Uses

SPX® an extensible high performance sack kraft paper has superior Tensile Energy Absorption (TEA) in both the machine and cross direction. SPX® has excellent runnability and a very desirable shade for best print results.

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Typical Values Imperial

Properties	Units						Test Method	
Basis Weight	lbs/3000ft ²		43	50	52	55	58	ISO 536
Tensile	lbs/in	MD	35.4	40.5	43.4	45.7	48.5	ISO 1924-3
		CD	25.7	29.1	30.8	33.1	34.3	
Tensile Index	Nm/g	MD	89	89	89	89	89	ISO 1924-3
		CD	64	64	64	64	64	
Stretch	%	MD	6.8	6.8	6.8	6.8	6.8	ISO 1924-3
		CD	8.9	8.9	8.9	8.9	8.9	
TEA	ft lb/ft ²	MD	15.1	17.1	18.2	19.2	20.2	ISO 1924-3
		CD	16.8	18.8	19.9	20.9	21.9	
TEA Index	J/g	MD	3.1	3.1	3.1	3.1	3.1	ISO 1924-3
		CD	3.4	3.4	3.4	3.4	3.4	
Tear	g	MD	85	90	100	110	120	ISO 1974
		CD	95	100	105	120	130	
Air Resistance	sec/100cc		15	15	15	15	15	ISO 5636-5
Cobb	g/m ² /min		30	30	30	30	30	ISO 535
Moisture	%		7.5	7.5	7.5	7.5	7.5	ISO 287

Product specifications in effect as of January 1, 2022

MD – Machine Direction CD – Cross Direction

Paper Test Conditions: Temperature = 73.4+/-1.8°F, Relative Humidity = 50%+/-2%



SPX-Velocity®

Technical Data Sheet



End Uses

SPX-Velocity® extensible high porous sack kraft paper is characterized by high strength in both the machine and cross direction with a high degree of air permeability.

The high porous paper allows for quick filling of the product without perforations, a cleaner dust-free environment and a cost effective packaging solutions.

Fibre Source

CKP paper is manufactured using unbleached kraft pulp and consists of 100% Northern Canadian virgin fibre. The slow growing softwood forests provide long fibre that gives our paper its superior strength. The fibre is harvested and replanted in accordance with sustainable forest management practices. CKP paper is fully biodegradable and is an eco-friendly packaging choice.

Approvals

CKP paper is produced in compliance with FDA CONEG, and BfR food packaging requirements.

Certification

Production of CKP paper is certified in accordance to ISO 9001 quality management system, KSA Kosher, ISEGA & SGS Food Contact. CKP Forest Management system is certified to CSA, PEFC Chain of Custody & ISO 14001 environment management.

Typical Values SI

Properties	Units					Test Method	
Basis Weight	gsm		70	80	90	98	ISO 536
Tensile	kN/m	MD	5.8	6.6	7.4	8.0	ISO 1924-3
		CD	4.2	4.8	5.4	6.0	
Tensile Index	Nm/g	MD	82	82	82	82	ISO 1924-3
		CD	60	60	60	60	
Stretch	%	MD	6.8	6.8	6.8	6.8	ISO 1924-3
		CD	8.9	8.9	8.9	8.9	
TEA	J/m ²	MD	210	240	270	290	ISO 1924-3
		CD	230	260	290	310	
TEA Index	J/g	MD	3.0	3.0	3.0	3.0	ISO 1924-3
		CD	3.3	3.3	3.2	3.2	
Tear	mN	MD	900	1000	1130	1220	ISO 1974
		CD	945	1100	1230	1350	
Air Resistance	sec/100cc		5	5	5	5	ISO 5636-5
Cobb	g/m ² /min		30	30	30	30	ISO 535
Moisture	%		7.5	7.5	7.5	7.5	ISO 287

Product specifications in effect as of January 1, 2022

MD – Machine Direction CD – Cross Direction

Paper Test Conditions: Temperature = 23+/-1°C, Relative Humidity = 50%+/-2%



SPX-Velocity®

Technical Data Sheet



End Uses

SPX-Velocity® extensible high porous sack kraft paper is characterized by high strength in both the machine and cross direction with a high degree of air permeability.

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Typical Values Imperial

Properties	Units					Test Method	
Basis Weight	lbs/3000ft ²		43	50	55	60	ISO 536
Tensile	lbs/in	MD	33.1	37.7	42.3	45.7	ISO 1924-3
		CD	24.0	27.4	30.8	34.3	
Tensile Index	Nm/g	MD	82	82	82	82	ISO 1924-3
		CD	60	60	60	60	
Stretch	%	MD	6.8	6.8	6.8	6.8	ISO 1924-3
		CD	8.9	8.9	8.9	8.9	
TEA	ft lb/ft ²	MD	14.4	16.4	18.5	19.9	ISO 1924-3
		CD	15.8	17.8	19.9	21.2	
TEA Index	J/g	MD	3.0	3.0	3.0	3.0	ISO 1924-3
		CD	3.3	3.3	3.2	3.2	
Tear	g	MD	90	105	115	125	ISO 1974
		CD	95	110	125	140	
Air Resistance	sec/100cc		5	5	5	5	ISO 5636-5
Cobb	g/m ² /min		30	30	30	30	ISO 535
Moisture	%		7.5	7.5	7.5	7.5	ISO 287

Product specifications in effect as of January 1, 2022

MD – Machine Direction CD – Cross Direction

Paper Test Conditions: Temperature = 73.4+/-1.8°F, Relative Humidity = 50%+/-2%



SPX-Velocity Premier®

Technical Data Sheet



End Uses

SPX-Velocity Premier® fully-extensible high porous sack kraft paper has exceptionally high balanced Tensile Energy Absorption (TEA) in both the cross and machine direction.

Combined with high air permeability and excellent runnability, this high porous paper allows for quick filling of the product without perforations, a cleaner dust-free environment and a cost effective packaging solutions.

Fibre Source

CKP paper is manufactured using unbleached kraft pulp and consists of 100% Northern Canadian virgin fibre. The slow growing softwood forests provide long fibre that gives our paper its superior strength. The fibre is harvested and replanted in accordance with sustainable forest management practices. CKP paper is fully biodegradable and is an eco-friendly packaging choice.

Approvals

CKP paper is produced in compliance with FDA CONEG, and BfR food packaging requirements.

Certification

Production of CKP paper is certified in accordance to ISO 9001 quality management system, KSA Kosher, ISEGA & SGS Food Contact. CKP Forest Management System is certified to CSA, PEFC Chain of Custody & ISO 14001 environment management.

Typical Values SI

Properties	Units					Test Method	
Basis Weight	gsm		70	80	85	90	ISO 536
Tensile	kN/m	MD	5.7	6.4	6.9	7.2	ISO 1924-3
		CD	4.7	5.4	5.9	6.2	
Tensile Index	Nm/g	MD	80	80	80	80	ISO 1924-3
		CD	68	68	68	68	
Stretch	%	MD	8.0	8.1	8.1	8.1	ISO 1924-3
		CD	8.6	8.6	8.6	8.6	
TEA	J/m ²	MD	235	270	285	305	ISO 1924-3
		CD	240	275	290	305	
TEA Index	J/g	MD	3.4	3.4	3.4	3.4	ISO 1924-3
		CD	3.4	3.4	3.4	3.4	
Tear	mN	MD	940	1020	1100	1170	ISO 1974
		CD	960	1100	1150	1220	
Air Resistance	sec/100cc		5	5	5	5	ISO 5636-5
Cobb	g/m ² /min		30	30	30	30	ISO 535
Moisture	%		7.5	7.5	7.5	7.5	ISO 287

Product specifications in effect as of January 1, 2022

MD – Machine Direction CD – Cross Direction

Paper Test Conditions: Temperature = 23+/-1°C, Relative Humidity = 50%+/-2%



SPX-Velocity Premier®

Technical Data Sheet



End Uses

SPX-Velocity Premier® fully-extensible high porous kraft sack paper has exceptionally high balanced Tensile Energy Absorption (TEA) in both the cross and machine direction.

Combined with high air permeability and excellent runnability, this high porous paper allows for quick filling of the product without perforations, a cleaner dust-free environment and a cost effective packaging solutions.

Fibre Source

CKP paper is manufactured using unbleached kraft pulp and consists of 100% Northern Canadian virgin fibre. The slow growing softwood forests provide long fibre that gives our paper its superior strength. The fibre is harvested and replanted in accordance with sustainable forest management practices. CKP paper is fully biodegradable and is an eco-friendly packaging choice.

Approvals

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Certification

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Typical Values Imperial

Properties	Units					Test Method	
Basis Weight	lbs/3000ft ²		43	50	52	55	ISO 536
Tensile	lbs/in	MD	32.5	36.5	39.4	41.1	ISO 1924-3
		CD	26.8	30.8	33.7	35.4	
Tensile Index	Nm/g	MD	80	80	80	80	ISO 1924-3
		CD	68	68	68	68	
Stretch	%	MD	8.0	8.1	8.1	8.1	ISO 1924-3
		CD	8.6	8.6	8.6	8.6	
TEA	ft lb/ft ²	MD	16.1	18.5	19.5	20.9	ISO 1924-3
		CD	16.4	18.8	19.9	20.9	
TEA Index	J/g	MD	3.4	3.4	3.4	3.4	ISO 1924-3
		CD	3.4	3.4	3.4	3.4	
Tear	g	MD	95	105	115	120	ISO 1974
		CD	100	110	120	125	
Air Resistance	sec/100cc		5	5	5	5	ISO 5636-5
Cobb	g/m ² /min		30	30	30	30	ISO 535
Moisture	%		7.5	7.5	7.5	7.5	ISO 287

Product specifications in effect as of January 1, 2022

MD – Machine Direction CD – Cross Direction

Paper Test Conditions: Temperature = 73.4+/-1.8°F, Relative Humidity = 50%+/-2%



SPX-Vector®

Technical Data Sheet



End Uses

SPX-Vector® extensible high performance sack kraft paper has superior strength and stiffness with a high degree of air permeability.

SPX-Vector® has been developed for single-ply valve sacks in demanding quick filling applications. The exceptional strength of this paper allows for reduced paper content per sack, which offers a more cost effective packaging solution. Generally sacks made from Vector do not require perforations.

Fibre Source

CKP paper is manufactured using unbleached kraft pulp and consists of 100% Northern Canadian virgin fibre. The slow growing softwood forests provide long fibre that gives our paper its superior strength. The fibre is harvested and replanted in accordance with sustainable forest management practices. CKP paper is fully biodegradable and is an eco-friendly packaging choice.

Typical Values SI

Properties	Units			Test Method	
Basis Weight	gsm		120	130	ISO 536
Tensile	kN/m	MD	10.5	11.4	ISO 1924-3
		CD	7.8	8.4	
Tensile Index	Nm/g	MD	88	88	ISO 1924-3
		CD	65	65	
Stretch	%	MD	9.0	9.0	ISO 1924-3
		CD	8.5	8.5	
TEA	J/m ²	MD	450	490	ISO 1924-3
		CD	385	410	
TEA Index	J/g	MD	3.8	3.8	ISO 1924-3
		CD	3.2	3.2	
Tear	mN	MD	1500	1620	ISO 1974
		CD	1800	1950	
Air Resistance	sec/100cc		10	10	ISO 5636-5
Cobb	g/m ² /min		30	30	ISO 535
Moisture	%		7.5	7.5	ISO 287

Product specifications in effect as of January 1, 2022

MD – Machine Direction CD – Cross Direction

Paper Test Conditions: Temperature = 23+/-1°C, Relative Humidity = 50%+/-2%



SPX-Vector®

Technical Data Sheet



End Uses

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Typical Values Imperial

Properties	Units				Test Method
Basis Weight	lbs/3000ft ²		74	80	ISO 536
Tensile	lbs/in	MD	60.0	65.1	ISO 1924-3
		CD	44.5	48.0	
Tensile Index	Nm/g	MD	88	88	ISO 1924-3
		CD	65	65	
Stretch	%	MD	9.0	9.0	ISO 1924-3
		CD	8.5	8.5	
TEA	ft lb/ft ²	MD	31.5	33.6	ISO 1924-3
		CD	26.4	28.1	
TEA Index	J/g	MD	3.8	3.8	ISO 1924-3
		CD	3.2	3.2	
Tear	g	MD	155	165	ISO 1974
		CD	180	200	
Air Resistance	sec/100cc		10	10	ISO 5636-5
Cobb	g/m ² /min		30	30	ISO 535
Moisture	%		7.5	7.5	ISO 287

Product specifications in effect as of January 1, 2022

MD – Machine Direction CD – Cross Direction

Paper Test Conditions: Temperature = 73.4 +/- 1.8°F, Relative Humidity = 50% +/- 2%



End Uses

SWS high performance wet strength sack kraft paper has been developed for use in applications demanding high strength and superior runnability with potential exposure to moisture.

SWS is used in multiwall shipping sacks that require strength when wetted such as potatoes and other foodstuffs.

Fibre Source

CKP paper is manufactured using unbleached kraft pulp and consists of 100% Northern Canadian virgin fibre. The slow growing softwood forests provide long fibre that gives our paper its superior strength. The fibre is harvested and replanted in accordance with sustainable forest management practices. CKP paper is fully biodegradable and is an eco-friendly packaging choice.

Approvals

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Certification

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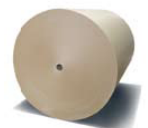
Typical Values SI

Properties	Units					Test Method	
Basis Weight	gsm		80	90	120	130	ISO 536
Tensile	kN/m	MD	8.6	9.7	13.0	14.1	ISO 1924-3
		CD	4.8	5.4	7.2	7.8	
Tensile Index	Nm/g	MD	108	108	108	108	ISO 1924-3
		CD	60	60	60	60	
Wet Tensile	Nm/m	MD	1.8	2.0	2.7	2.9	ISO 1924-3
		CD	1.0	1.2	1.5	1.7	
Stretch	%	MD	2.5	2.5	2.7	2.7	ISO 1924-3
		CD	8.4	8.4	8.4	8.4	
TEA	J/m ²	MD	145	160	245	260	ISO 1924-3
		CD	255	285	365	390	
TEA Index	J/g	MD	1.8	1.8	2.0	2.0	ISO 1924-3
		CD	3.2	3.2	3.0	3.0	
Tear	mN	MD	970	1075	1520	1700	ISO 1974
		CD	860	1000	1620	1650	
Air Resistance	sec/100cc		15	15	15	15	ISO 5636-5
Cobb	g/m ² /min		30	30	30	30	ISO 535
Moisture	%		7.5	7.5	7.5	7.5	ISO 287

Product specifications in effect as of January 1, 2022

MD – Machine Direction CD – Cross Direction

Paper Test Conditions: Temperature = 23+/-1°C, Relative Humidity = 50%+/-2%



End Uses

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Production of CKP paper is certified in accordance to ISO 9001 quality management system, KSA Kosher, ISEGA & SGS Food Contact. CKP forest management system is certified to CSA, PEFC Chain of Custody & ISO 14001 environment management.

Typical Values Imperial

Properties	Units					Test Method	
Basis Weight	lbs/3000ft ²		50	55	74	80	ISO 536
Tensile	lbs/in	MD	49.1	55.4	74.2	80.5	ISO 1924-3
		CD	27.4	30.8	41.1	44.5	
Tensile Index	kN/g	MD	108	108	108	108	ISO 1924-3
		CD	60	60	60	60	
Wet Tensile	Nm/m	MD	10.3	11.4	15.4	16.6	ISO 1924-3
		CD	5.7	6.6	8.6	9.4	
Stretch	%	MD	2.5	2.5	2.7	2.7	ISO 1924-3
		CD	8.4	8.4	8.4	8.4	
TEA	ft lb/ft ²	MD	9.9	11.0	16.8	17.8	ISO 1924-3
		CD	17.5	19.5	25.0	26.7	
TEA Index	J/g	MD	1.8	1.8	2.0	2.0	ISO 1924-3
		CD	3.2	3.2	3.0	3.0	
Tear	g	MD	100	110	155	175	ISO 1974
		CD	90	100	165	170	
Air Resistance	sec/100cc		15	15	15	15	ISO 5636-5
Cobb	g/m ² /min		30	30	30	30	ISO 535
Moisture	%		7.5	7.5	7.5	7.5	ISO 287

Product specifications in effect as of January 1, 2022

MD – Machine Direction CD – Cross Direction

Paper Test Conditions: Temperature = 73.4+/- 1.8°F, Relative Humidity = 50%+/-2%

