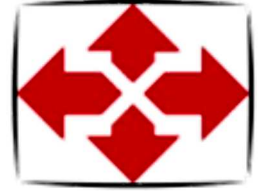


## Kraft Paper Technical Data Sheet

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### End Uses

SPK high performance unbleached kraft paper is recommended for use in applications demanding high CD strength and superior converting runnability.

SPK is used in multiwall shipping sacks; flour, sugar, seed, feed, potatoes, etc., air filled dunnage bags and other specialty uses. SPK has proven to perform exceptionally in industrial applications and high strength laminated paper products.

### Fibre Source

SPK is manufactured with a blend of virgin fibre from Black Spruce and Jack Pine. These northern boreal slow growing woods have exceptionally high strength potential. Canadian Kraft Paper (CKP) fibre is harvested and replanted in accordance with sustainable forest management practices under CSA, PEFC, and ISO 14001 environmental quality control standards.

### Quality Systems

SPK quality is controlled with a comprehensive management system registered to ISO 9001 and incorporating elements of environmental (ISO 14001) and employee health and safety (OHAS 18001) management systems. CKP manufactures kraft papers in compliance with FDA as per 21 CFR 176.170 and 176.180, CONEG heavy metals and toxics, German recommendation XXXVI, 94/62/EEC certifications and is Kosher certified. This paper meets the requirements for packaging recoverable by composting and degradation ISO 17088 (2008) and EN 13432 2000. Certificates of compliance to all applicable regulatory requirements will be supplied upon request.

### Typical Values SI

Properties	Units					Test Method	
Basis Weight	gsm		80	90	98	115	ISO 536
Tensile	kN/m	MD	7.9	9.1	9.8	11.9	ISO 1924-3
		CD	4.5	5.1	5.6	6.0	
Tensile Index	Nm/g	MD	100	100	100	104	ISO 1924-3
		CD	57	57	57	52	
Stretch	%	MD	2.5	2.7	2.7	3.0	ISO 1924-3
		CD	8.9	8.9	8.7	8.7	
TEA	J/m <sup>2</sup>	MD	140	165	190	235	ISO 1924-3
		CD	255	285	300	340	
TEA Index	J/g	MD	1.8	1.8	1.9	2.0	ISO 1924-3
		CD	3.2	3.2	3.1	3.0	
Tear	mN	MD	1060	1200	1300	1575	ISO 1974
		CD	1100	1250	1350	1725	
Porosity	Sec/100cc		15	15	15	15	ISO 5636-5
Cobb	g/m <sup>2</sup> /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, 2019

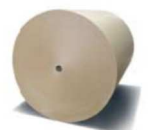
MD – Machine Direction CD – Cross Direction

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

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### Typical Values Imperial

Properties	Units						Test Method
Basis Weight	lbs/3000ft <sup>2</sup>		50	55	60	70	ISO 536
Tensile	lbs/in	MD	45.1	52.0	56.0	67.9	ISO 1924-3
		CD	25.7	29.1	32.0	34.3	
Tensile Index	Nm/g	MD	100	100	100	104	ISO 1924-3
		CD	57	57	57	52	
Stretch	%	MD	2.5	2.7	2.7	3.0	ISO 1924-3
		CD	8.9	8.9	8.7	8.7	
TEA	ft lb/ft <sup>2</sup>	MD	9.6	11.3	13.0	16.1	ISO 1924-3
		CD	17.5	19.5	20.5	23.3	
TEA Index	J/g	MD	1.8	1.8	1.9	2.0	ISO 1924-3
		CD	3.2	3.2	3.1	3.0	
Tear	g	MD	110	120	135	160	ISO 1974
		CD	115	125	140	175	
Porosity	sec/100cc		15	15	15	15	ISO 5636-5
Cobb	g/m <sup>2</sup> /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, 2019

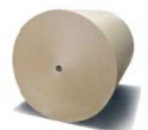
MD – Machine Direction CD – Cross Direction

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

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### End Uses

SPX extensible high performance unbleached kraft paper has superior Tensile Energy Absorption (TEA) and balanced strength characteristics in both the machine and cross direction.

Even stronger than SPK, multiwall shipping sacks made from SPX use less paper in demanding applications for a variety of products such as cement and other construction materials. Typically used in pasted valve sacks.

### Fibre Source

SPX is manufactured with a blend of virgin fibre from Black Spruce and Jack Pine. These northern boreal slow growing woods have exceptionally high strength potential. Canadian Kraft Paper (CKP) fibre is harvested and replanted in accordance with sustainable forest management practices under CSA, PEFC, and ISO 14001 environmental quality control standards.

### Quality Systems

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### Typical Values SI

Properties	Units					Test Method	
Basis Weight	gsm		80	85	90	95	ISO 536
Tensile	kN/m	MD	7.1	7.6	8.0	8.5	ISO 1924-3
		CD	5.1	5.5	5.7	6.1	
Tensile Index	Nm/g	MD	89	89	89	89	ISO 1924-3
		CD	64	64	64	64	
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 <sup>2</sup>	MD	255	275	290	305	ISO 1924-3
		CD	280	300	310	330	
TEA Index	J/g	MD	3.2	3.2	3.2	3.2	ISO 1924-3
		CD	3.5	3.5	3.5	3.5	
Tear	mN	MD	975	1050	1125	1190	ISO 1974
		CD	1050	1150	1225	1285	
Porosity	Sec/100cc		15	15	15	15	ISO 5636-5
Cobb	g/m <sup>2</sup> /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, 2019

MD – Machine Direction CD – Cross Direction

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

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### Typical Values Imperial

Properties	Units					Test Method	
Basis Weight	lbs/3000ft <sup>2</sup>		50	52	55	58	ISO 536
Tensile	lbs/in	MD	40.5	43.4	45.7	48.5	ISO 1924-3
		CD	29.1	31.4	32.5	34.8	
Tensile Index	Nm/g	MD	89	89	89	89	ISO 1924-3
		CD	64	64	64	64	
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 <sup>2</sup>	MD	17.5	18.8	19.9	20.9	ISO 1924-3
		CD	19.2	20.5	21.2	22.3	
TEA Index	J/g	MD	3.2	3.2	3.2	3.2	ISO 1924-3
		CD	3.5	3.5	3.5	3.5	
Tear	g	MD	100	105	115	120	ISO 1974
		CD	105	115	125	130	
Porosity	sec/100cc		15	15	15	15	ISO 5636-5
Cobb	g/m <sup>2</sup> /min		30	30	30	30	ISO 535
Moisture	%		7.5	7.5	7.5	7.5	ISO 287

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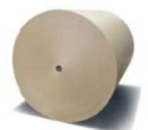
MD – Machine Direction CD – Cross Direction

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

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# SPX® - Velocity

## Technical Data Sheet



### End Uses

SPX-Velocity high performance extensible unbleached kraft paper is characterized by balanced high strength in both the machine and cross direction with a high degree of air permeability (porosity).

Porous paper is used mainly for pasted valve sacks when no perforations are used. Porous paper is growing in demand where there is a need for faster filling and cleaner packaging. It is a more cost effective packaging solution.

### Fibre Source

SPX-Velocity is manufactured with a blend of virgin fibre from Black Spruce and Jack Pine. These northern boreal slow growing woods have exceptionally high strength potential. Canadian Kraft Paper (CKP) fibre is harvested and replanted in accordance with sustainable forest management practices under CSA, PEFC, and ISO 14001 environmental quality control standards.

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### Typical Values SI

Properties	Units				Test Method	
Basis Weight	gsm		80	90	98	ISO 536
Tensile	kN/m	MD	6.5	7.4	8.0	ISO 1924-3
		CD	4.8	5.4	5.9	
Tensile Index	Nm/g	MD	82	82	82	ISO 1924-3
		CD	60	60	60	
Stretch	%	MD	6.8	6.8	6.8	ISO 1924-3
		CD	8.9	8.9	8.9	
TEA	J/m <sup>2</sup>	MD	245	275	305	ISO 1924-3
		CD	255	290	315	
TEA Index	J/g	MD	3.1	3.1	3.1	ISO 1924-3
		CD	3.2	3.2	3.2	
Tear	mN	MD	1050	1175	1300	ISO 1974
		CD	1100	1275	1450	
Porosity	Sec/100cc		5	5	5	ISO 5636-5
Cobb	g/m <sup>2</sup> /min		30	30	30	ISO 535
Moisture	%		7.5	7.5	7.5	ISO 287

Product specifications in effect as of January 1, 2019

MD – Machine Direction CD – Cross Direction

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

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### Typical Values Imperial

Properties	Units				Test Method	
Basis Weight	lbs/3000ft <sup>2</sup>		50	55	60	ISO 536
Tensile	lbs/in	MD	37.5	42.3	45.7	ISO 1924-3
		CD	27.4	30.8	33.7	
Tensile Index	Nm/g	MD	82	82	82	ISO 1924-3
		CD	60	60	60	
Stretch	%	MD	6.8	6.8	6.8	ISO 1924-3
		CD	8.9	8.9	8.9	
TEA	ft lb/ft <sup>2</sup>	MD	16.8	18.8	20.9	ISO 1924-3
		CD	17.5	19.9	21.6	
TEA Index	J/g	MD	3.1	3.1	3.1	ISO 1924-3
		CD	3.2	3.2	3.2	
Tear	g	MD	105	120	135	ISO 1974
		CD	110	130	150	
Porosity	sec/100cc		5	5	5	ISO 5636-5
Cobb	g/m <sup>2</sup> /min		30	30	30	ISO 535
Moisture	%		7.5	7.5	7.5	ISO 287

Product specifications in effect as of January 1, 2019

MD – Machine Direction CD – Cross Direction

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

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# SPX® - Velocity Premier

## Technical Data Sheet



### End Uses

SPX-Velocity Premier high performance unbleached kraft paper has exceptionally high tensile energy absorption (TEA) in both the cross and machine direction. Combined with high porosity and very good runnability, this paper is ideal for pasted valve sacks for powdered material. Without the need for perforations, where faster filling and cleaner packaging is required, the result is a more cost effective packaging solution.

### Fibre Source

SPX-Velocity Premier is manufactured with a blend of virgin fibre from Black Spruce and Jack Pine. These northern boreal slow growing woods have exceptionally high strength potential. Canadian Kraft Paper (CKP) fibre is harvested and replanted in accordance with sustainable forest management practices under CSA, PEFC, and ISO 14001 environmental quality control standards.

### Quality Systems

SPX-Velocity Premier quality is controlled with a comprehensive management system registered to ISO 9001 and incorporating elements of environmental (ISO 14001) and employee health and safety (OHAS 18001) management systems. CKP manufactures kraft papers in compliance with FDA as per 21 CFR 176.170 and 176.180, CONEG heavy metals and toxics, German recommendation XXXVI, 94/62/EEC certifications and is Kosher certified. This paper meets the requirements for packaging recoverable by composting and degradation ISO 17088 (2008) and EN 13432 2000. Certificates of compliance to all applicable regulatory requirements will be supplied upon request.

### Typical Values SI

Properties	Units					Test Method
Basis Weight	gsm		80	85	90	ISO 536
Tensile	kN/m	MD	6.5	6.9	7.3	ISO 1924-3
		CD	5.6	6.0	6.3	
Tensile Index	Nm/g	MD	81	81	81	ISO 1924-3
		CD	70	70	70	
Stretch	%	MD	8.1	8.1	8.1	ISO 1924-3
		CD	8.6	8.6	8.6	
TEA	J/m <sup>2</sup>	MD	275	290	305	ISO 1924-3
		CD	280	300	315	
TEA Index	J/g	MD	3.4	3.4	3.4	ISO 1924-3
		CD	3.5	3.5	3.5	
Tear	mN	MD	1080	1130	1215	ISO 1974
		CD	1080	1130	1215	
Porosity	Sec/100cc		5	5	5	ISO 5636-5
Cobb	g/m <sup>2</sup> /min		30	30	30	ISO 535
Moisture	%		7.5	7.5	7.5	ISO 287

Product specifications in effect as of January 1, 2019

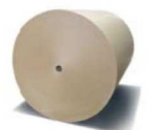
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# SPX® - Velocity Premier

## Technical Data Sheet



### End Uses

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### Fibre Source

SPX-Velocity Premier is manufactured with a blend of virgin fibre from Black Spruce and Jack Pine. These northern boreal slow growing woods have exceptionally high strength potential. Canadian Kraft Paper (CKP) fibre is harvested and replanted in accordance with sustainable forest management practices under CSA, PEFC, and ISO 14001 environmental quality control standards.

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### Typical Values Imperial

Properties	Units				Test Method	
Basis Weight	lbs/3000ft <sup>2</sup>		50	52	55	ISO 536
Tensile	lbs/in	MD	37.1	39.4	41.7	ISO 1924-3
		CD	32.0	34.3	36.0	
Tensile Index	Nm/g	MD	81	81	81	ISO 1924-3
		CD	70	70	70	
Stretch	%	MD	8.1	8.1	8.1	ISO 1924-3
		CD	8.6	8.6	8.6	
TEA	ft lb/ft <sup>2</sup>	MD	18.8	19.9	20.2	ISO 1924-3
		CD	19.2	20.5	21.6	
TEA Index	J/g	MD	3.4	3.4	3.4	ISO 1924-3
		CD	3.5	3.5	3.5	
Tear	g	MD	110	115	125	ISO 1974
		CD	110	115	125	
Porosity	sec/100cc		5	5	5	ISO 5636-5
Cobb	g/m <sup>2</sup> /min		30	30	30	ISO 535
Moisture	%		7.5	7.5	7.5	ISO 287

Product specifications in effect as of January 1, 2019

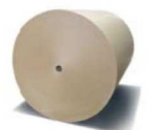
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# SPX® - Vector

## Technical Data Sheet



### End Uses

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

SPX-Vector is used mainly for pneumatic filled sacks with no perforations. This paper is intended for single ply sack construction where the basis weight is higher and stiffness is increased. When used in this application, Vector will provide more economical and efficient sack construction and filling.

### Fibre Source

SPX-Vector is manufactured with a blend of virgin fibre from Black Spruce and Jack Pine. These northern boreal slow growing woods have exceptionally high strength potential. Canadian Kraft Paper (CKP) fibre is harvested and replanted in accordance with sustainable forest management practices under CSA, PEFC, and ISO 14001 environmental quality control standards.

### Quality Systems

SPX-Vector quality is controlled with a comprehensive management system registered to ISO 9001 and incorporating elements of environmental (ISO 14001) and employee health and safety (OHAS 18001) management systems. CKP manufactures kraft papers in compliance with FDA as per 21 CFR 176.170 and 176.180, CONEG heavy metals and toxics, German recommendation XXXVI, 94/62/EEC certifications and is Kosher certified. This paper meets the requirements for packaging recoverable by composting and degradation ISO 17088 (2008) and EN 13432 2000. Certificates of compliance to all applicable regulatory requirements will be supplied upon request.

### Typical Values SI

Properties	Units			Test Method	
Basis Weight	gsm	120	130	ISO 536	
Tensile	kN/m	MD	10.2	11.1	ISO 1924-3
		CD	7.8	8.4	
Tensile Index	Nm/g	MD	85	85	ISO 1924-3
		CD	65	65	
Stretch	%	MD	9.0	9.0	ISO 1924-3
		CD	9.0	9.0	
TEA	J/m <sup>2</sup>	MD	460	490	ISO 1924-3
		CD	415	450	
TEA Index	J/g	MD	3.8	3.8	ISO 1924-3
		CD	3.5	3.5	
Tear	mN	MD	1560	1650	ISO 1974
		CD	1830	1900	
Porosity	Sec/100cc	12	12	ISO 5636-5	
Cobb	g/m <sup>2</sup> /min	30	30	ISO 535	
Moisture	%	7.5	7.5	ISO 287	

Product specifications in effect as of January 1, 2019

MD – Machine Direction CD – Cross Direction

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

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SPX-Vector is manufactured with a blend of virgin fibre from Black Spruce and Jack Pine. These northern boreal slow growing woods have exceptionally high strength potential. Canadian Kraft Paper (CKP) fibre is harvested and replanted in accordance with sustainable forest management practices under CSA, PEFC, and ISO 14001 environmental quality control standards.

### Quality Systems

SPX-Vector quality is controlled with a comprehensive management system registered to ISO 9001 and incorporating elements of environmental (ISO 14001) and employee health and safety (OHAS 18001) management systems. CKP manufactures kraft papers in compliance with FDA as per 21 CFR 176.170 and 176.180, CONEG heavy metals and toxics, German recommendation XXXVI, 94/62/EEC certifications and is Kosher certified. This paper meets the requirements for packaging recoverable by composting and degradation ISO 17088 (2008) and EN 13432 2000. Certificates of compliance to all applicable regulatory requirements will be supplied upon request.

### Typical Values Imperial

Properties	Units				Test Method
Basis Weight	lbs/3000ft <sup>2</sup>		74	80	ISO 536
Tensile	lbs/in	MD	58.2	63.4	ISO 1924-3
		CD	44.5	48.0	
Tensile Index	Nm/g	MD	85	85	ISO 1924-3
		CD	65	65	
Stretch	%	MD	9.0	9.0	ISO 1924-3
		CD	9.0	9.0	
TEA	ft lb/ft <sup>2</sup>	MD	31.5	33.6	ISO 1924-3
		CD	28.4	30.8	
TEA Index	J/g	MD	3.8	3.8	ISO 1924-3
		CD	3.5	3.5	
Tear	g	MD	160	170	ISO 1974
		CD	185	195	
Porosity	sec/100cc		12	12	ISO 5636-5
Cobb	g/m <sup>2</sup> /min		30	30	ISO 535
Moisture	%		7.5	7.5	ISO 287

Product specifications in effect as of January 1, 2019

MD – Machine Direction CD – Cross Direction

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

Marketed by



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