



MIDDLETOWN SERVICE CENTER

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RUBBER COVERS AND ROLL SERVICE MIDDLETOWN SERVICE CENTER

The right roll covering solution for your paper, metal or industrial process.

Vail Rubber Works, Inc.
605 Clark Street
P.O. Box 919
Middletown, Ohio 45042
Phone 513-705-2060
Toll Free 866-727-6224
Fax 513-705-2064

[**sales@vailrubber.com**](mailto:sales@vailrubber.com)

2013 Roll Cover Product Manual

Other Vail locations to serve you:

St. Joseph Service Center: 521 Langley Avenue, P.O. Box 64, St. Joseph, MI 49085 • (269) 983-1595
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Optimize Paper Machine Performance with Vail Rubber Works Covers

Vail Rubber Works is the only American owned first tier supplier of critical roll covers to the paper industry in North America. Service centers are strategically located in Middletown OH, Mobile AL and St. Joseph MI to provide timely/quality service. Coupled with our one-stop roll cover/rebuild capability and in-mill service, roll cover life can be maximized and downtime reduced. Our in-house rubber mixing capability enables us to supply consistent quality rubber compounds, customized for your applications. With over 100 years experience in the roll industry, Vail has extensive technical expertise in rubber and polyurethane compounding and roll cover processing.



Prior to specifying a cover application, our service/sales specialist will thoroughly evaluate your roll application, study cover performance history, and evaluate temperature and chemical resistance requirements. Once the specification process is completed, our in-house project managers take ownership of the quotation and subsequent order process. The project manager handles all order aspects, from receipt of the roll, procurement of materials, delivery tracking and is the single point of contact for you, the customer, and our service/sales specialist. Supported by a highly skilled workforce and 24-hour coverage, we can provide quick turnarounds.



Vail's proprietary bonding systems and state of the art processing equipment assures superior cover performance and durability. Our service/sales specialist can be on-site for the initial roll installation and

provide regular shutdown service, as well as conduct and analyze electronic nip impressions. As with any product or service, references are a key factor when selecting a supplier. We have compiled a substantial list of application references in critical cover positions such as top/center press, suction and blind drilled press, size press, coater backing and metering.

Non-drilled covers supplied in 3-4 weeks, drilled ones in 4-5 weeks.

Call us Toll Free at 866-PAP-MACH
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ROLL COVER PRODUCT SPECIFICATION DATA SHEETS

**Specialized roll coverings and one-stop service with our skilled staff
are a winning combination.**

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ROLL COVER SPECIFICATION SHEETS

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TRADENAME CROSS REFERENCE LISTING

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Position	Vail	Metso	Voith	Stowe Woodward
Wire Rolls / Felt Rolls	Ebonite	Marblex	Webmate	Ebonite
	Black Rock	Jet-Roc	Webmate II	Black Diamond
	Insul 250	Jet-Roc	Webmate II	Black Diamond
	Temp Rock	Jet-Roc II	Magnarock W	Dyna-X
Cylinder Couch / Extractor Couch	Ni-Chem II	Couch-Rite	Duromate	Tannite
	Top Tex	Couch-Rite II	Duromate II	Pre-Press
	Poly CC (PU)	N/A	Polymax	Polylast XT
Drive Rolls	V-Drive	Hycoe	Checkmate	Drive Press
	V-Drive II	Hycoe II	Checkmate II	Fabmate
Lumpbreaker	Long Lease	Ray-Lease II	Duromate II	Peeler
	Long Lease III	Ray-Lease III	Duromate III	Pre-Press
	N/A	Polytec 410 (PU)	Polymax L (PU)	Polylast (PU)
Suction Press	V-Press	X-Press	Kraftmaster	X-300
	V-Press II	X-Press II	Kraftmaster II	Resistex
	V-Press X	Press Gator ZL	Stratopress SP	Super Press XL
Blind Drilled Press	Drill Press	Wel-Press	Kraftmaster BD	Aquawell, X-300
	Drill Press II	Wel-Press II	Kraftmaster II BD	Aquawell II
	Drill Press X	Press Gator ZL	Stratopress BD	Super Press XL
Grooved Press	V-Press G	Venture	MaxVent	Aquamate II
	V-Press G II	Venture II	MaxVent II	Permavent
	V-Press G X	Venture 5000	NA	NA
Hard Press / Hard Size Press	Emerald Stone	Green Granite	Duromax	Microrok
Hard Breakerstack	Emerald Stone II	Ray-Roc II	Durolease	Dynarok
	Emerald Stone X	Shamrock	Top Rock	Centerok II
Soft Top Press	Top Lease	Self-Skinner	Kraftmaster	Micro-Peeler
	Top Lease II	Self-Skinner II	Kraftmaster II	Micromate
	Top Lease X	Self-Skinner 5000	Stratopress	Super Press XL
Soft Size Press/Soft Breakerstack	V-Size	Ray-Flex	Checkmate	Sizerite
	V-Size II	Ray-Flex II	Top Size HPX	Micromate
	Ultramate X	Ray-Flex 5000	Stratosize	Supersize XL
Coater	Blue Coat	Belcote	Durokote	Preskote
	Blue Coat II	Belcote	Magnacoat II	Dynakote, Variokote
	Blue Coat X	CoatEagle ZL	StratoCoat	Super Press XL
	Poly Cast Plus	NA	NA	NA

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Leadin/Leadout	Slik Lease II	Ray-Roc II, T-Roc	Maxlease II	Therm-X-250
Dryer Felt	N/A	Protec-Plus (RE)	Webtek (RE)	Temp-Fab (RE)
Reel Spool	Reel Rock	Stat-X	StatMate	Prestow
	Poly Mate (PU)	Reel Safe R (PU)	PolyRoll (PU)	Polyreel (PU)
Tradename Key - Example	Suffix	Cover Type	Elastomer	Max Oper Temp
Drill Press	None	Standard	NR/SBR/PBD	200 ° F
Drill Press II	II	Premium	NBR	225 ° F
Drill Press X	X	Advanced Premium	HNBR	250 ° F
Poly CC	None	Polyurethane	PU	180 ° F (wet)
Poly Mate	None	Polyurethane	PU	200 ° F (dry)

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Roll Cover Specification

“Ebonite”

Application:

- Breast Rolls
- Table Rolls
- Wire Guide Rolls
- Press Felt Rolls

“Ebonite” is a standard elastomeric compound material. “Ebonite” has standard abrasion resistance. It is chemically stable and solvent resistant of most chemicals and solvents used in paper machine applications. “Ebonite” is not recommended for doctored positions.

Hardness:	0-1 P&J
Release:	Excellent
Doctoring:	Not Recommended
Uniformity:	Excellent
Maximum Recommended Thickness:	5/8”
Acid Resistance:	Excellent
Alkaline Resistance:	Excellent
Solvent Resistance:	Excellent
Steam Resistance:	Excellent
Maximum Operating Temperature:	200 ° F

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Roll Cover Specification

“Black Rock”

Application:

- Breast Rolls
- Table Rolls
- Wire Return Rolls
- Wire Guide Rolls
- Press Felt Rolls

“Black Rock” is a premium elastomeric compound material. “Black Rock” has a high modulus and excellent abrasion resistance. It is chemically stable and solvent resistant to most chemicals and solvents used in paper machine applications. “Black Rock” doctors very well and promotes long term performance in demanding applications.

Hardness:	0-1 P&J
Release:	Excellent
Doctoring:	Excellent
Uniformity:	Excellent
Maximum Recommended Thickness:	5/8”
Acid Resistance:	Excellent
Alkaline Resistance:	Excellent
Solvent Resistance:	Excellent
Steam Resistance:	Excellent
Maximum Operating Temperature:	200 ° F

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Roll Cover Specification

“Insul 250”

Application:

- **Breast Rolls**
- **Table Rolls**
- **Wire Return Rolls**
- **Wire Guide Rolls**
- **Press Felt Rolls**

“Insul 250” is a premium elastomeric compound material. “Insul 250” has excellent thermal stability, high modulus and excellent abrasion resistance. It is chemically stable and solvent resistant to most chemicals and solvents used in paper machine applications. “Insul 250” doctors well and promotes long term performance in demanding applications.

Hardness:	0-1 P&J
Release:	Excellent
Doctoring:	Excellent
Uniformity:	Excellent
Maximum Recommended Thickness:	5/8”
Acid Resistance:	Excellent
Alkaline Resistance:	Excellent
Solvent Resistance:	Excellent
Steam Resistance:	Excellent
Maximum Operating Temperature:	225 ° F

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Roll Cover Specification

“Temp Rock”

Application:

- **Breast Rolls**
- **Table Rolls**
- **Wire Return Rolls**
- **Wire Guide Rolls**
- **Press Felt Rolls**

“Temp Rock” is the most premium elastomeric compound material. “Temp Rock” has exceptional thermal stability with a high modulus and excellent abrasion resistance. It is chemically stable and solvent resistant to most chemicals and solvents used in paper machine applications. “Temp Rock” doctors exceptionally well and is the cover of choice for long term performance in demanding applications.

Hardness:	0-1 P&J
Release:	Superior
Doctoring:	Excellent
Uniformity:	Excellent
Maximum Recommended Thickness:	5/8”
Acid Resistance:	Excellent
Alkaline Resistance:	Excellent
Solvent Resistance:	Excellent
Steam Resistance:	Excellent
Maximum Operating Temperature:	225 ° F

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Roll Cover Specification

“Ni Chem II”

Application:

- Cylinder Couch Rolls
- Suction Drum Rolls
- Extractor Couch Rolls

“Ni Chem II” is a premium elastomeric compound material. “Ni Chem II” is specifically formulated for softer Couch Roll applications. It is chemically stable and is resistant to extremely demanding environments in the wet end of the paper machine.

Hardness:	100 - 275 P&J
Abrasion Resistance:	Excellent
Uniformity:	Excellent
Maximum Recommended Thickness:	2”
Acid Resistance:	Excellent
Alkaline Resistance:	Excellent
Solvent Resistance:	Excellent
Operating Temperature:	225 degree (F)



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Roll Cover Specification

“Top Tex”

Application:

- **Extractor Couch Rolls**

“Top Tex” is a premium elastomeric compound material. “Top Tex” has a high modulus and excellent abrasion resistance. It is chemically stable and solvent resistant to most chemicals and solvents used in paper machine applications. “Top Tex” is thermally stable and will perform well in demanding Extractor Couch Roll applications.

Hardness:	110 – 150 P&J
Uniformity:	Excellent
Maximum Recommended Thickness:	2.0”
Acid Resistance:	Excellent
Alkaline Resistance:	Excellent
Solvent Resistance:	Excellent
Maximum Operating Temperature:	225 ° F



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Roll Cover Specification

“Poly CC”

Application:

- Cylinder Couch Rolls
- Extractor Couch Rolls

“Poly CC” is a premium polyurethane compound material. This compound is homogeneous and specifically formulated for long term runnability in Cylinder Couch applications. “Poly CC” exhibits superior abrasion resistance, is thermally stable, is very hardness stable and promotes long-term run cycles in demanding applications in wet environments. “Poly CC” is the roll cover of choice for Cylinder Couch roll related optimization.

Hardness:	150 - 250 P&J
Recommended Thickness:	1.5” to 2.0”
Abrasion Resistance:	Superior
Uniformity:	Excellent
Thermal Stability:	Excellent
Acid Resistance:	Good
Alkaline Resistance:	Good
Solvent Resistance:	Good
Operating Temperatures:	180 degree (F)

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Roll Cover Specification

“V-Drive”

Application:

- **Breast Rolls**
- **Wire Drive Rolls**
- **Wire Turning Rolls**
- **Grooved Table Rolls**

“V-Drive” is a premium elastomeric compound material. “V-Drive” has a high modulus and excellent abrasion resistance. It is a good performer in very demanding high temperature applications in the paper machine. “V-Drive” has a high coefficient of friction and will perform well in driven applications.

Hardness:	10 - 15 P&J
Uniformity:	Excellent
Maximum Recommended Thickness:	3/4”
Acid Resistance:	Excellent
Alkaline Resistance:	Excellent
Solvent Resistance:	Excellent
Steam Resistance:	Good
Maximum Operating Temperature:	200 ° F

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Roll Cover Specification

“V-Drive II”

Application:

- **Breast Rolls**
- **Wire Drive Rolls**
- **Wire Turning Rolls**
- **Grooved Table Rolls**

“V-Drive II” is a premium elastomeric compound material. “V-Drive II” is the compound of choice for “drive” positions in the paper machine. It has a superior coefficient of friction which will promote long term performance. It is chemically stable and has excellent solvent resistance to most chemicals and solvents used in paper machine applications. Additionally, “V-Drive II” exhibits superior thermal stability in operation.

Hardness:	10 - 25 P&J
Uniformity:	Excellent
Maximum Recommended Thickness:	3/4”
Acid Resistance:	Excellent
Alkaline Resistance:	Excellent
Solvent Resistance:	Excellent
Steam Resistance:	Excellent
Maximum Operating Temperature:	225 ° F



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Roll Cover Specification

“Long Lease”

Application:

- Lumpbreaker

“Long Lease” is an excellent elastomeric compound material. “Long Lease” will perform exceptionally well in the Lumpbreaker position. “Long Lease” offers excellent resistance to chemical influences while exhibiting excellent sheet release characteristics. “Long Lease” is resistant to most chemical influences and will perform well in demanding paper machine applications.

Hardness:	200 P&J
Release:	Excellent
Uniformity:	Excellent
Maximum Recommended Thickness:	2.0”
Acid Resistance:	Good
Alkaline Resistance:	Good
Solvent Resistance:	Good
Steam Resistance:	Good
Maximum Operating Temperature:	200 ° F

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Roll Cover Specification

“Long Lease III”

Application:

- Lumpbreaker

“Long Lease III” is a premium elastomeric compound material. “Long Lease III” is the premium compound for Lumpbreaker positions to ensure long term performance. “Long Lease III” is an excellent compound when steam box influences are applicable. “Long Lease III” offers excellent resistance to chemical influences while exhibiting excellent sheet release characteristics. “Long Lease III” is resistant to most chemical influences and will perform well in demanding paper machine applications.

Hardness:	100 - 225 P&J
Release:	Excellent
Uniformity:	Excellent
Maximum Recommended Thickness:	2.0”
Acid Resistance:	Excellent
Alkaline Resistance:	Excellent
Solvent Resistance:	Excellent
Steam Resistance:	Excellent
Maximum Operating Temperature:	250 ° F

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Roll Cover Specification

“V-Press”

Application:

- Suction Press Rolls

“V-Press” is a standard elastomeric compound material. “V-Press” is the cover for relatively standard Suction Press Roll Cover applications. It is resistant to most chemicals, thermally stable and has good abrasion resistance.

Hardness:	7 - 40 P&J
Doctoring:	Good
Uniformity:	Excellent
Maximum Recommended Thickness:	1.0”
Abrasion Resistance:	Good
Acid Resistance:	Good
Alkaline Resistance:	Good
Steam Resistance:	Good
Solvent Resistance:	Good
Maximum Operating Temperature:	200 ° F

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Roll Cover Specification

“V-Press II”

Application:

- Suction Press Rolls

“V-Press II” is a premium elastomeric compound material. “V-Press II” is the cover of choice for demanding paper machine applications. “V-Press II” is thermally stable, chemically resistant and will hold the roll cover hardness throughout its run cycles. Abrasion resistance is a key quality of this roll cover compound which will promote long-term run cycles.

Hardness:	8 - 42 P&J
Doctoring:	Excellent
Uniformity:	Excellent
Maximum Recommended Thickness:	1.0”
Abrasion Resistance:	Excellent
Acid Resistance:	Excellent
Alkaline Resistance:	Excellent
Steam Resistance:	Excellent
Solvent Resistance:	Excellent
Maximum Operating Temperature:	225 ° F

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Roll Cover Specification

“V-Press X”

Application:

- Suction Press Rolls
- Suction Pressure Rolls (Tissue)

“V-Press X” is the most advanced elastomeric compound material. “V-Press X” is a truly revolutionary roll cover compound. “V-Press X” has the most advanced abrasion resistance found in conventional elastomeric cover compounds for the most demanding paper machine applications. It is chemically stable and solvent resistance to most chemicals and solvents used in paper machine applications. “V-Press X” will run well in the press section during run cycles, when removed, it will require minimal stock removal to attain the required surface profile.

Hardness:	10 - 40 P&J
Doctoring:	Excellent
Uniformity:	Excellent
Maximum Recommended Thickness:	1.0”
Abrasion Resistance:	Superior
Acid Resistance:	Excellent
Alkaline Resistance:	Excellent
Steam Resistance:	Excellent
Solvent Resistance:	Excellent
Maximum Operating Temperature:	250 ° F

Other Vail locations to serve you:

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Roll Cover Specification

“Drill Press”

Application:

- **Blind Drilled Press Rolls**

“Drill Press” is a standard elastomeric compound material. “Drill Press” is the cover for standard Blind Drilled Press Roll Cover applications. “Drill Press” will perform well in many demanding paper machine applications. It is resistant to most chemicals, thermally stable and exhibits good abrasion resistance. The compound is adaptable to all forms of Blind Drilled pattern requirements.

Hardness:	7 - 12 P&J
Doctoring:	Good
Uniformity:	Excellent
Maximum Recommended Thickness:	1.0”
Abrasion Resistance:	Good
Acid Resistance:	Good
Alkaline Resistance:	Good
Steam Resistance:	Good
Solvent Resistance:	Good
Maximum Operating Temperature:	200 ° F

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Roll Cover Specification

“Drill Press II”

Application:

- **Blind Drilled Press Rolls**

“Drill Press II” is a premium compound material. “Drill Press II” is the cover of choice for demanding Blind Drilled Press Roll applications. “Drill Press II” will perform well in many demanding paper machine applications. It is resistant to most chemicals, thermally stable, exhibits excellent abrasion resistance and maintains surface hardness stability following regrinding after run cycle times in the press section.

Hardness:	8 - 42 P&J
Doctoring:	Excellent
Uniformity:	Excellent
Maximum Recommended Thickness:	1.0”
Abrasion Resistance:	Excellent
Acid Resistance:	Excellent
Alkaline Resistance:	Excellent
Steam Resistance:	Excellent
Solvent Resistance:	Excellent
Maximum Operating Temperature:	225 ° F

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Roll Cover Specification

“Drill Press X”

Application:

- **Blind Drilled Press Rolls**
- **Blind Drilled Pressure Rolls (Tissue)**

“Drill Press X” is the most advanced premium elastomeric roll cover compound for Blind Drilled Press Roll applications in the most demanding paper machine applications. Abrasion resistance is the key factor to “Drill Press X”. “Drill Press X” will run very well in the press section with minimal stock removal following regrinds after run cycle times. “Drill Press X” is chemically resistant, thermally stable and has superior abrasion resistance. “Drill Press X” is truly a revolutionary roll cover compound for advanced application requirements.

Hardness:	10 - 40 P&J
Doctoring:	Excellent
Uniformity:	Excellent
Maximum Recommended Thickness:	1.0”
Abrasion Resistance:	Superior
Acid Resistance:	Excellent
Alkaline Resistance:	Excellent
Steam Resistance:	Excellent
Solvent Resistance:	Excellent
Maximum Operating Temperature:	250 °F



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Roll Cover Specifications

“V-Press G”

Application:

- Grooved Press Rolls

“V-Press G” is a premium elastomeric (rubber) compound material. “V-Press G” is the cover of choice for demanding paper machine applications. “V-Press G” is thermally stable, chemically resistance and will hold the roll cover hardness and grooving integrity throughout it’s run cycles. Abrasion resistance is the key quality of this roll cover compound and will promote long term run cycles.

Hardness:	7 - 12 P&J
Doctoring:	Excellent
Uniformity:	Excellent
Maximum Recommended Thickness:	1.0”
Abrasion Resistance:	Good
Acid Resistance:	Good
Alkaline Resistance:	Good
Steam Resistance:	Good
Solvent Resistance:	Good
Maximum Operating Temperature:	200 ° F

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Roll Cover Specification

“V-Press G II”

Application:

- Grooved Press Rolls

“V-Press G II” is a premium elastomeric compound material. “V-Press G II” is thermally stable and will maintain grooving geometry throughout run cycles in the most demanding applications in the paper machine. It is chemically stable and solvent resistant to most chemicals and solvents used in paper machine applications. “V-Press G II” is the cover of choice for most Grooved Press (Venti-Nip) applications.

Hardness:	8 - 13 P&J
Doctoring:	Excellent
Uniformity:	Excellent
Maximum Recommended Thickness:	1.0”
Abrasion Resistance:	Excellent
Acid Resistance:	Excellent
Alkaline Resistance:	Excellent
Steam Resistance:	Excellent
Solvent Resistance:	Excellent
Maximum Operating Temperature:	225 ° F

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Roll Cover Specification

“V-Press G X”

Application:

- Grooved Press Rolls

“V-Press G X” is the most advanced elastomeric compound material. “V-Press G X” is a truly revolutionary roll cover compound. “V-Press G X” has the most advanced abrasion resistance found in conventional rubber cover compounds in the most demanding paper machine applications. It is chemically stable and solvent resistant of most chemicals and solvents used in paper machine applications. “V-Press G X” will run well in the press section during run cycles while maintaining superior grooving geometry throughout.

Hardness:	10 - 23 P&J
Doctoring:	Excellent
Uniformity:	Excellent
Maximum Recommended Thickness:	1.0”
Abrasion Resistance:	Superior
Acid Resistance:	Excellent
Alkaline Resistance:	Excellent
Steam Resistance:	Excellent
Solvent Resistance:	Excellent
Maximum Operating Temperature:	250 ° F

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Roll Cover Specification

“Emerald Stone”

Application:

- Hard Top Press Rolls
- Hard Center Press Rolls
- Hard Size Press Rolls
- Bottom Smoothing Press Rolls
- Bottom Breaker Stack Press Rolls

“Emerald Stone” is a premium elastomeric compound material. “Emerald Stone” is easily doctored with the surface designed to release fiber and allow pitch-like substances to be easily cleaned and removed. “Emerald Stone” can be doctored with stainless steel or composite doctor blades without fear of abrasion or scoring.

Hardness:	0-1 P&J
Doctoring:	Excellent
Uniformity:	Excellent
Maximum Recommended Thickness:	5/8”
Abrasion Resistance:	Excellent
Acid Resistance:	Excellent
Alkaline Resistance:	Excellent
Solvent Resistance:	Excellent
Steam Resistance:	Excellent
Maximum Operating Temperature:	200 ° F

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Roll Cover Specification

“Emerald Stone II”

Application:

- Hard Top Press Rolls
- Hard Center Press Rolls
- Hard Size Press Rolls
- Bottom Smoothing Press Rolls
- Bottom Breaker Stack Press Rolls

“Emerald Stone II” is a premium elastomeric compound material. “Emerald Stone II” has advanced characteristics which permit it to be easily doctored with the surface designed to release fiber and allow pitch-like substances to be easily cleaned and removed. “Emerald Stone II” can be doctored with stainless steel or composite doctor blades without fear of abrasion or scoring. “Emerald Stone II” is the cover of choice for high temperature requirements and long term performance in demanding paper machine applications.

Hardness:	0-1 P&J
Doctoring:	Excellent
Uniformity:	Excellent
Maximum Recommended Thickness:	5/8”
Abrasion Resistance:	Excellent
Acid Resistance:	Excellent
Alkaline Resistance:	Excellent
Solvent Resistance:	Excellent
Steam Resistance:	Excellent
Maximum Operating Temperature:	225 ° F

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Roll Cover Specification

“Emerald Stone X”

Application:

- **Hard Top Press Rolls**
- **Hard Center Press Rolls**
- **Hard Size Press Rolls**
- **Bottom Smoothing Press Rolls**
- **Bottom Breaker Stack Rolls**

“Emerald Stone X” is the most advanced premium elastomeric compound material. “Emerald Stone X” has advanced characteristics which permit it to be easily doctored with the surface designed to release fiber and allow pitch-like substances to be easily cleaned and removed. The additives to this compound material perform exceptionally well in applications where buildup occurs. “Emerald Stone X” can be doctored with stainless steel or composite doctor blades without fear of abrasion or scoring. “Emerald Stone X” is truly a revolutionary compound material that promotes long term performance and excellent sheet release characteristics in the most demanding paper machine applications.

Hardness:	0-1 P&J
Doctoring:	Excellent
Uniformity:	Excellent
Maximum Recommended Thickness:	5/8”
Sheet Release:	Superior
Abrasion Resistance:	Excellent
Alkaline Resistance:	Excellent
Solvent Resistance:	Excellent
Steam Resistance:	Excellent
Maximum Operating Temperature:	225 ° F

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Roll Cover Specification

“Top Lease”

Application:

- (Soft) Top Press Rolls

“Top Lease” is a premium elastomeric compound material. “Top Lease” performs well in (soft) Top Press applications. It has excellent sheet release characteristics and has excellent abrasion resistant qualities. “Top Lease” is thermally stable and chemically resistant to most chemicals in the most demanding paper machine applications.

Hardness:	8 - 25 P&J
Uniformity:	Excellent
Maximum Recommended Thickness:	1.0”
Abrasion Resistance:	Excellent
Acid Resistance:	Excellent
Alkaline Resistance:	Excellent
Steam Resistance:	Excellent
Solvent Resistance:	Excellent
Maximum Operating Temperature:	200 ° F

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Roll Cover Specification

“Top Lease II”

Application:

- (Soft) Top Press Rolls

“Top Lease II” is an advance premium elastomeric compound material. “Top Lease II” performs very well in (soft) Top Press applications. It has excellent sheet release characteristics and has excellent abrasion resistance qualities. “Top Lease II” is thermally stable, chemically resistant to most chemicals and will maintain it’s hardness throughout run cycles in the most demanding paper machine applications.

Hardness:	8-42 P&J
Uniformity:	Excellent
Maximum Recommended Thickness:	1.0”
Abrasion Resistance:	Excellent
Acid Resistance:	Excellent
Alkaline Resistance:	Excellent
Steam Resistance:	Excellent
Solvent Resistance:	Excellent
Maximum Operating Temperature:	225 ° F

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Roll Cover Specification

“Top Lease X”

Application:

- (Soft) Top Press Rolls

“Top Lease X” is an advanced premium elastomeric compound material. “Top Lease X” is the premier roll cover compound for (soft) Top Press applications. It has excellent sheet release characteristics and excellent abrasion resistant qualities. The most important attribute to “Top Lease X” is it’s superior abrasion resistance which promotes long term run cycles with minimal stock removal during regrinding. “Top Lease X” is thermally stable and chemically resistant to most chemicals in the most demanding paper machine applications.

Hardness:	10-40 P&J
Uniformity:	Excellent
Maximum Recommended Thickness:	1.0”
Doctoring:	Excellent
Abrasion Resistance:	Superior
Acid Resistance:	Excellent
Alkaline Resistance:	Excellent
Steam Resistance:	Excellent
Solvent Resistant:	Excellent
Maximum Operating Temperature:	250 ° F

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Roll Cover Specification

“V-Size”

Application:

- (Soft) Size Press
- (Soft) Breaker Stack

“V-Size” is a premium elastomeric compound material. “V-Size” performs well in the most demanding (pivot) Size Press and Breaker Stack positions. It has excellent sheet release characteristics and has good abrasion resistant qualities. “V-Size” is thermally stable and chemically resistant to most chemicals in the most demanding paper machine applications. Thermal stability and non-deformation of the roll cover’s surface are the most positive attributes of “V-Size”.

Hardness:	8-42 P&J
Release:	Excellent
Uniformity:	Excellent
Maximum Recommended Thickness:	1.0”
Abrasion Resistance:	Good
Doctoring:	Good
Acid Resistance:	Good
Alkaline Resistance:	Good
Solvent Resistance:	Good
Steam Resistance:	Good
Maximum Operating Temperature:	200 ° F

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Roll Cover Specification

“V-Size II”

Application:

- (Soft) Size Press
- (Soft) Breaker Stack

“V-Size II” is an advanced premium elastomeric compound material. “V-Size II” performs well in demanding (pivot) Size Press and Breaker Stack positions. It has excellent sheet release characteristics and has excellent abrasion resistant qualities. The most advantageous benefit of “V-Size II” is its hardness stability at elevated temperatures while limiting deformation of the cover’s surface. It is chemically resistant to most chemicals in paper machine applications. “V-Size II” is the cover of choice for related applications as noted.

Hardness:	8 - 42 P&J
Release:	Excellent
Uniformity:	Excellent
Maximum Recommended Thickness:	1.0”
Abrasion Resistance:	Excellent
Doctoring:	Excellent
Acid Resistance:	Excellent
Alkaline Resistance:	Excellent
Solvent Resistance:	Excellent
Steam Resistance:	Excellent
Maximum Operating Temperature:	225 ° F

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Roll Cover Specification

“Ultramate X”

Application:

- (Soft) Size Press Rolls
- (Soft) Breaker Stack Rolls

“Ultramate X” is our most advanced premium elastomeric compound material. “Ultramate X” is truly a revolutionary roll cover compound material. “Ultramate X” performs outstandingly in all demanding (pivot) Size Press and Breakerstack positions. It has excellent sheet release characteristics and has outstanding abrasion resistant qualities. “Ultramate X” exhibits superior hardness stability at elevated temperatures and superior resistance to surface abrasion.

Hardness:	10 - 40 P&J
Release:	Excellent
Uniformity:	Excellent
Maximum Recommended Thickness:	1.0”
Abrasion Resistance:	Superior
Doctoring:	Excellent
Acid Resistance:	Excellent
Alkaline Resistance:	Excellent
Solvent Resistance:	Excellent
Steam Resistance:	Excellent
Maximum Operating Temperature:	250 ° F

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Roll Cover Specification

“Blue Coat”

Application:

- Coater Backing Rolls
- Coater Transfer Rolls
- Coater Applicator Rolls

“Blue Coat” is a standard elastomeric compound material. “Blue Coat” performs well in all demanding Coater Roll applications. It exhibits superior surface uniformity, has excellent release characteristics and good abrasion resistance. “Blue Coat” is chemically resistant to most chemicals and solvents in paper machine applications. “Blue Coat” has superior mechanical rebound and is resistant to wad damage.

Hardness:	27 - 78 P&J
Release:	Excellent
Uniformity:	Excellent
Maximum Recommended Thickness:	1.25”
Abrasion Resistance:	Good
Compression Set Resistance:	Good
Acid Resistance:	Good
Alkaline Resistance:	Good
Solvent Resistance:	Good
Maximum Operating Temperature:	200 ° F

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Roll Cover Specification

“Blue Coat II”

Application:

- Coater Backing Rolls
- Coater Transfer Rolls
- Coater Applicator Rolls

“Blue Coat II” is a premium elastomeric compound material. “Blue Coat II” performs well in all demanding Coater Roll applications. It exhibits superior surface uniformity, has excellent release characteristics and excellent abrasion resistance. “Blue Coat II” is thermally stable in demanding heat elevated applications. “Blue Coat II” is chemically resistant to most chemicals and solvents in paper machine applications. “Blue Coat II” has superior mechanical rebound and is resistant to wad damage.

Hardness:	27 - 78 P&J
Release:	Excellent
Uniformity:	Excellent
Maximum Recommended Thickness:	1.25”
Abrasion Resistance:	Excellent
Compression Set Resistance:	Excellent
Acid Resistance:	Excellent
Alkaline Resistance:	Excellent
Solvent Resistance:	Excellent
Maximum Operating Temperature:	225 ° F

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Roll Cover Specification

“Blue Coat X”

Application:

- Coater Backing Rolls
- Coater Transfer Rolls
- Coater Applicator Rolls

“Blue Coat X” is our most advanced premium elastomeric compound material. “Blue Coat X” is formulated for outstanding abrasion resistance in the most demanding Coater applications. It has outstanding thermal stability. “Blue Coat X” will promote long term run cycles for enhanced roll cover performance in the most demanding Coater applications. “Blue Coat X” has superior mechanical rebound characteristics and is resistant to “wad” damage.

Hardness:	45 - 80 P&J
Release:	Excellent
Uniformity:	Excellent
Maximum Recommended Thickness:	1.25”
Abrasion Resistance:	Superior
Compression Set Resistance:	Excellent
Acid Resistance:	Excellent
Alkaline Resistance:	Excellent
Solvent Resistance:	Excellent
Maximum Operating Temperature:	250 ° F



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Roll Cover Specification

“Poly Cast Plus”

Application:

- **Coater Backing Rolls**

“Poly Cast Plus” is a premium polyurethane roll covering material. “Poly Cast Plus” is an abrasion resistant cover material with excellent compression set resistance and good cut/tear resistance. The primary benefit of “Poly Cast Plus” is that the cover has much less susceptibility to wad marks, dents and wrinkles which promotes increased Coater productivity by reducing downtime as a result of roll maintenance.

Hardness:	30 - 35 P&J
Release:	Excellent
Uniformity:	Excellent
Maximum Recommended Thickness:	1.0”
Abrasion Resistance:	Superior
Cut/Tear Resistance:	Superior
Compression Set Resistance:	Superior
Acid Resistance:	Good
Alkaline Resistance:	Good
Water Resistance:	Good
Solvent Resistance:	Good
Maximum Operating Temperature:	180 ° F

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Roll Cover Specification

“Slik Lease II”

Application:

- Size Press Lead In Rolls
- Size Press Lead Out Rolls
- Felt Rolls

“Slik Lease II” is a premium elastomeric compound material. “Slik Lease II” is designed to optimize performance in demanding paper carrying roll positions. “Slik Lease II” has outstanding sheet release properties. “Slik Lease II” has excellent abrasion resistance, thermal stability and is resistant to cracking. The surface is designed to release fiber and to repel “stickies”. “Slik Lease II” will withstand alum solution sprays that assist cleaning requirements in difficult operating conditions.

Hardness:	0-1 P&J
Release:	Superior
Abrasion Resistance:	Excellent
Uniformity:	Excellent
Recommended Thickness:	1/4”
Acid Resistance:	Excellent
Alkaline Resistance:	Excellent
Steam Resistance:	Excellent
Solvent Resistance:	Excellent
Maximum Operating Temperature:	225 ° F

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Roll Cover Specification

“Reel Rock”

Application:

- Reel Spools
- Sheeter Rolls
- Paper Carrying Rolls
- Spreader Rolls

“Reel Rock” is a elastomeric compound material. “Reel Rock” has good cut/tear resistance. “Reel Rock” exhibits excellent abrasion resistance. “Reel Rock” is recommended where the process requires a combination of the ability to conduct away static electricity and to promote exceptional wear life. “Reel Rock” exhibits good chemical resistance to most solvents.

Hardness:	21 P&J
Abrasion Resistance:	Excellent
Cut/Tear Resistance:	Good
Maximum Recommended Thickness:	1.0”
Acid Resistance:	Good
Alkaline Resistance:	Good
Water Resistance:	Good
Solvent Resistance:	Good
Maximum Operating Temperature:	200 ° F

Other Vail locations to serve you:

St. Joseph Service Center: 521 Langley Avenue, P.O. Box 64, St. Joseph, MI 49085 • (269) 983-1595
Surface Technology Center: 4131 M-139 Highway, St. Joseph, MI 49085 • (269) 408-0092

World Class Quality, Delivery and Service™



MIDDLETOWN SERVICE CENTER

605 Clark Street
P.O. Box 44-919
Middletown, OH 45042-0919
Phone: (866) 727-6224
(513) 705-2060
Fax: (513) 705-2064
www.vailrubber.com

Roll Cover Specification

“Poly Mate”

Application:

- Reel Spools
- Sheeter Rolls
- Paper Carrying Rolls
- Spreader Rolls

“Poly Mate” is a (polyurethane) compound material. “Poly Mate” has exceptionally good cut/tear resistance. “Poly Mate” exhibits superior abrasion resistance. “Poly Mate” is recommended where the process requires a combination of the ability to conduct away static electricity and to promote exceptional wear life. “Poly Mate” exhibits good chemical resistance to most solvents.

Hardness:	15 - 60 P&J
Abrasion Resistance:	Superior
Cut/Tear Resistance:	Superior
Recommended Maximum Thickness:	1.0”
Acid Resistance:	Good
Alkaline Resistance:	Good
Water Resistance:	Good
Solvent Resistance:	Good
Maximum Operating Temperature:	200 ° F

Other Vail locations to serve you:

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