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200 Bank Street
Sherbrooke, Quebec
J1H 4K3

american-biltrite.com
rubber@american-biltrite.com

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BRO-GU-ARD
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GUARD-RITE®

ENGINEERED RUBBER LININGS FOR MINING AND INDUSTRIAL APPLICATIONS



american-biltrite.com

GUARD-RITE®

PREMIUM ENGINEERED LININGS



GUARD-RITE® engineered rubber linings protect equipment against abrasion, impact, corrosion, chemicals and extreme operating conditions. Available in natural and synthetic rubber compounds, the GUARD-RITE portfolio provides dependable protection across demanding mining and industrial applications.

WHY RUBBER LINING?

- **Extends equipment life.**
- **Reduces downtime and replacement costs.**
- **Protects against abrasion, corrosion, chemicals, acids, alkalis, slurries and aggregates.**
- **Predictable wear simplifies maintenance planning.**
- **Easily repaired or patched without relining the entire asset.**
- **Reduces noise and vibration.**
- **No Buffing, Just Bonding.**

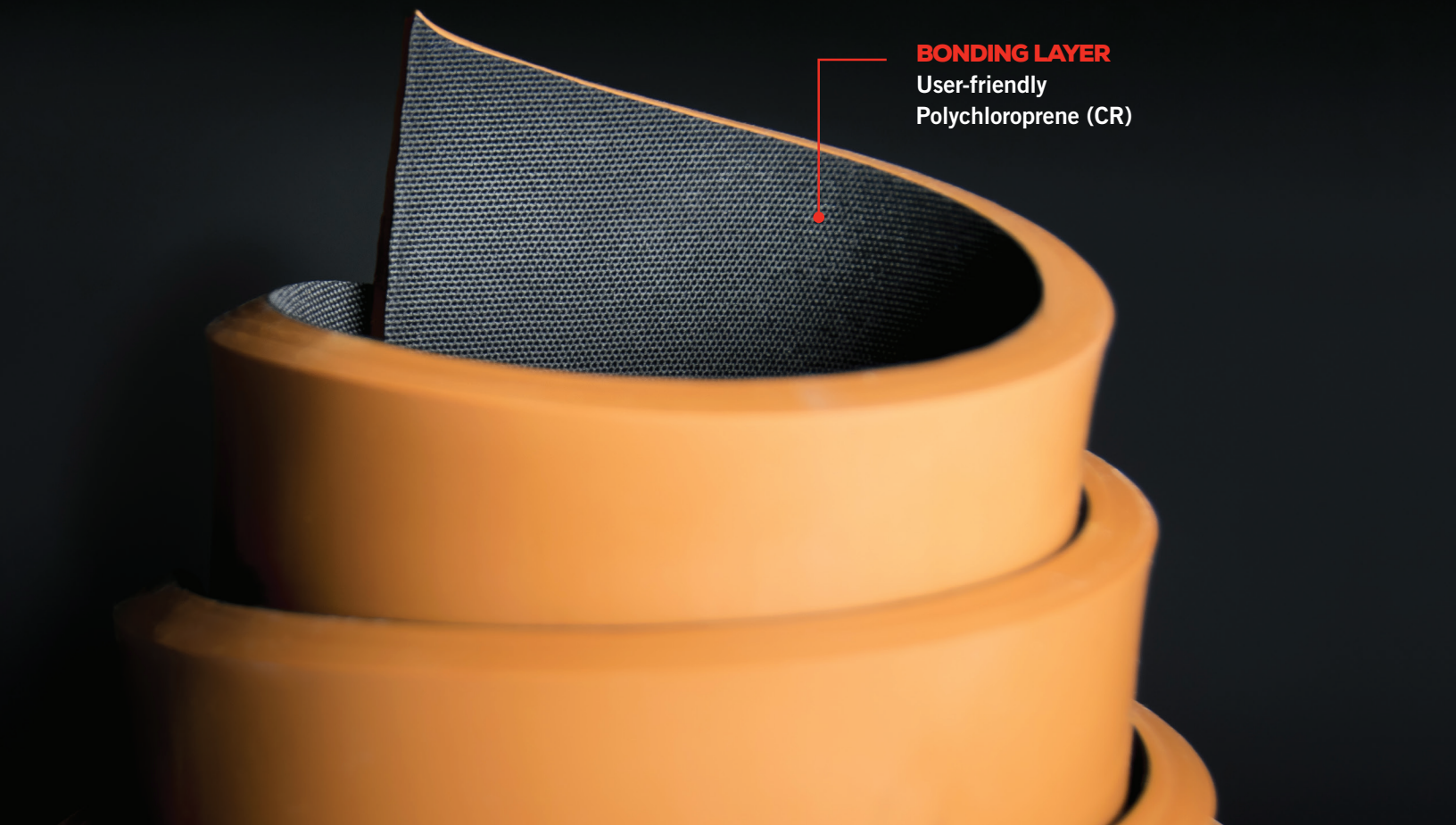


Why
AMERICAN BILTRITE?

One source. Multiple lining solutions.
From abrasion and impact to chemicals, heat and demanding geometries, GUARD-RITE provides a complete portfolio of engineered rubber lining solutions backed by American Biltrite's North American distribution network.

TEXTURED NEOPRENE BONDING LAYER

- Excellent adhesion characteristics
- No buffing required prior to adhesive application
- Common bonding layer across all seven GUARD-RITE products
- One installation procedure simplifies training and application
- One adhesive system helps reduce inventory requirements
- Less surface preparation can mean less installation time and downtime







CHOOSE THE RIGHT LINING FOR THE APPLICATION

NATURAL RUBBER, BEST SUITED FOR:

- Abrasion
- Impact
- Cut and tear resistance
- Noise reduction

The products in this category are:

TEAR-GUARD 40 (RED)

TEAR-GUARD 60 (RED)

ABRASION-GUARD (ORANGE)

SUPREME-GUARD (BLACK)

SYNTHETIC RUBBER, BEST SUITED FOR:

- Chemicals
- Heat
- Ozone/UV exposure
- Flame resistance

The products in this category are:

CHEM-GUARD
(Chemical Resistant BUTYL)

HEAT-GUARD
(Temperature / Climate Resistant EPDM)

FLAME-GUARD
(Self-Extinguishing NEOPRENE)

The GUARD-RITE line has your specific application requirements covered.

NATURAL RUBBER PRODUCTS

APPLICATIONS

TEAR-GUARD, ABRASION-GUARD, & SUPREME-GUARD

Our natural rubber linings are ideal for: storage vessels, tumblers, vibrators, cyclones, fans, pumps, pipes, chutes, hoppers, shaker / trommel screens, bins, pulley lagging, truck boxes, mine cars, skips, slurry tanks, and flotation cells.

Addendum B - Physical Properties - Typical Value Comparisons

PHYSICAL PROPERTIES[1]	ASTM	TEAR-GUARD 40	TEAR-GUARD 60	ABRASION-GUARD	SUPREME-GUARD
Hardness (Shore A)	D2240	40	60	40	60
Specific Gravity		1.06	1.16	1.03	1.15
Tensile Strength (psi)	D412	3000	3000	3000	**3500**
Ultimate Elongation %	D412	600	400	**700**	400
Tear Resistance (Lbs/in)	D624	350	450	180	**500**
Abrasion Resistance* Wet (mm^3) Dry (mm^3)		 40 160	 40 225	 **12** **120**	 20 150
Temperature Range (general)		**-40 to 180 °F** **-40 to 82 °C**	**-40 to 180 °F** **-40 to 82 °C**	**-40 to 180 °F** **-40 to 82 °C**	**-40 to 180 °F** **-40 to 82 °C**
Heat Aging - change in: ✦Hardness ✦Tensile ✦Elongation	D573 @ 70 °C (158 °F)	 +10 points -25% -25%	 +10 points -25% -25%	 +10 points - 25% -25%	 **+10 points** **- 25%** **-25%**

BOLD BLACK highlight indicates best performance.
1. For product without a bonding layer.
* Abrasion Resistance method DIN 53516 measures material loss, lowest values are preferred.
Typical values do not constitute a specification.
Technical specifications are for the product without the bonding layer. Material is within commercial sheet rubber gauge tolerances.
Please ensure the product meets your application's specification prior to order placement. Technical data subject to change without notice.
The website version prevails.

SYNTHETIC RUBBER PRODUCTS

APPLICATIONS

CHEM-GUARD

The primary polymer of CHEM-GUARD is Butyl. This rubber compound is ideal for: acid storage, transport tanks, pipes, pumps, limestone slurry tanks, ferric chloride storage and transport. CHEM-GUARD provides the ultimate solution for chemical resistance. Good resistance to alkalis, acids, heat, oxygen, water, and steam. Outstanding impermeability to gases and vapour.

HEAT-GUARD

The primary polymer of HEAT-GUARD is Ethylene Propylene Diene (EPDM). This rubber compound is ideal for: ponds, gutters, tailings, and ozone/UV resistance. HEAT-GUARD provides stability where high heat and ozone/UV resistance are factors as it maintains its physical properties when exposed to harsh elements.

FLAME-GUARD

The primary polymer of FLAME-GUARD is Neoprene. This rubber compound is ideal for: transportation / storage tanks, sea water transport, pipes, fittings, and fans. FLAME-GUARD is considered self-extinguishing and also displays moderate resistance to: oil, gas, abrasion, weather, ozone, natural aging, and flex cracking. A good general-purpose solution.

Addendum B - Physical Properties - Typical Value Comparisons

PHYSICAL PROPERTIES[1]	ASTM	CHEM-GUARD BUTYL	HEAT-GUARD EPDM	FLAME-GUARD NEOPRENE
Hardness (Shore A)	D2240	60	60	60
Specific Gravity		1.24	1.20	1.25
Tensile Strength (psi)	D412	1000	800	2500
Ultimate Elongation (%)	D412	300	**300**	400
Ozone Resistance 70 hrs 50 PPHM @ 40 °C (104 °F)		**No Cracking**	**No Cracking**	**No Cracking**
Temperature Range (general)		-30 to 212 °F -34 to 100 °C	**-40 to 250 °F** **-40 to 121 °C**	**-40 to 250 °F** **-40 to 121 °C**
Heat Aging - change in: ✦Hardness ✦Tensile ✦ Elongation	D573 @ 100 °C (212 °F)	+10 points -25% -25%	**+10 points** **-25%** **-25%**	+/-15 points +/- 30% -50%
Oil immersion IRM #3 OIL AGING 70 hrs @ 100 °C (212 °F) Volume Change:	D471	**	**	120%

BOLD BLACK highlight indicates best performance.

1. For product without a bonding layer.

** Where these areas are critical we do not recommend the use of this product.

Typical values do not constitute a specification.

Technical specifications are for the product without the bonding layer. Material is within commercial sheet rubber gauge tolerances.

Please ensure the product meets your application's specification prior to order placement. Technical data subject to change without notice.

The website version prevails.

UNCURED RUBBER LININGS

Complex shapes? Tight corners? Difficult geometries? GUARD-RITE uncured linings conform to challenging surfaces, bends and elbows where conventional sheet installation can be difficult.

Designed for application to properly prepared substrates using approved bonding systems, with curing options suitable for atmospheric or autoclave processes.

The products in this category are:

9042
40 DUROMETER RED NATURAL RUBBER

(Reference the attributes of Natural Rubber)

8060
65 DUROMETER BLACK NATURAL RUBBER

(Reference the attributes of Natural Rubber)

242
60 DUROMETER BLACK NATURAL RUBBER / CHLOROBUTYL

(Natural Rubber attributes with Butyl added for enhanced chemical resistance)

424
55 DUROMETER BLACK BROMOBUTYL / NATURAL RUBBER

(Butyl attributes with Natural Rubber added for enhanced strength, abrasion and tear resistance)

Addendum B - Physical Properties - Typical Value Comparisons

PHYSICAL PROPERTIES	ASTM	242	424	8060	9042
Hardness (Shore A)	D2240	60	55	65	40
Specific Gravity		1.12	1.15	1.16	1.06
Tensile Strength (psi)	D412	2900	1200	3000	3000
Ultimate Elongation %	D412	400	350	400	400
Temperature Range (general)		-40 to 159 °F -40 to 70 °C	-40 to 159 °F -40 to 70 °C	-40 to 159 °F -40 to 70 °C	-40 to 159 °F -40 to 70 °C

Typical values do not constitute a specification.
Please ensure the product meets your application's specification prior to order placement. Technical data subject to change without notice.
The website version prevails.

REFERENCE TECHNICAL BENEFITS AND POSSIBLE APPLICATIONS ON PAGES 4 & 5.