

Flame Retardant Low Friction (FRPLUS) Material

FOR ALUMINUM AND STEEL CAN MANUFACTURING

Provides low friction and is flame retardant for container conveying applications.

Rexnord FlatTop continuously develops solution-oriented, innovative conveyor chain and components to meet the increasing performance demands of high-speed and mass-flow metal containers in the can manufacturing industry. Our Rexnord® Flame Retardant Low Friction (FRPLUS™) Material for MatTop® Chain provides low friction, is flame retardant, and more, for your aluminum and steel can manufacturing operation.



EXCLUSIVE, SELF-EXTINGUISHING MATERIAL

An exclusive offering from Rexnord, the material is formulated to self-extinguish per the UL Standard 94 V-0 when the source of ignition or flame is removed.

RELIABLE PERFORMANCE

Rexnord FRPLUS Material provides reliable and durable performance:

- Requires little or no external lubrication to maintain low friction between the containers and chain
- Stability in container flow and behavior during conveying
- Withstands chemicals and drawing fluids used in the manufacturing of cans
- Minimizes dusting
- Our proven chain-sprocket interaction requires no take-ups and uses a catenary sag to absorb chain wear and elongation

TECHNICAL EXPERTISE

The combination of our material and chain design, and technical expertise, can help you choose durable conveyor systems that guarantee optimal product handling without compromising your ability to meet targets for safety improvements, increased productivity, energy savings, and minimized risk of fire. Contact your Rexnord FlatTop representative or our European Application Engineering team at +31 174 445 111 to review your application.

Key Industry

Aluminum and steel can manufacturing

Key Application:

- Container conveying

Material:

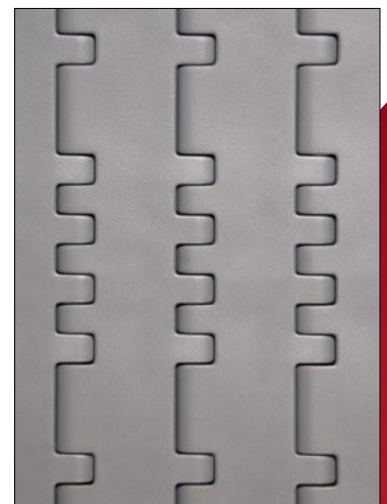
- FRPLUS

Rexnord MatTop Chain Series:

- 1500
- 5930
- 7700
- 8500

Key Features:

- Flame retardant
- Low friction



Rexnord FRPLUS Material molded in 7705 Series MatTop Chain

FEATURES AND BENEFITS:

- **Wear resistance** – provides the high wear resistance you’ve come to expect from Rexnord-developed materials
- **Low friction** – specifically designed to generate a constant, low friction between chain and containers, while providing energy savings and mitigating container damage from backline pressure
- **Flame retardant** – self-extinguishes itself when exposed to flame, minimizing the risk of fire
- **Reliability** – friction between chain and container is consistent over time, eliminating the need to adjust conveyor settings
- **Performance** – designed to run without external lubrication, resulting in energy and material savings, as well as longer chain life

General Information

Prefix	Material	Temperature						FDA Approval
		Fahrenheit			Celsius			
		min	max		min	max		
			dry	wet		dry	wet	
FRPLUS	Flame Retardant Low Friction (metallic silver)	0	+180	+140	-18	+82	+60	No

Friction Factors Between Material and Product

Operating Condition	Product Material						
	Aluminum	Returnable Glass Bottles*	Non-Returnable Glass Bottles	Paper	Plastic (crates, shrink-wrap, etc.)	PET	Steel
Dry	0.14	0.18	0.14	0.30	0.20	0.18	0.25
Water	0.13	0.16	0.12	NR	0.18	0.16	0.20
Soap and Water	0.12	0.14	0.10	NR	0.15	0.15	0.15
Oil	–	–	–	NR	–	–	0.10

Friction Factors Between Material and Wearstrips

Operating Condition	Wearstrip Material			
	Carbon and Stainless Steel	UHMWPE	Nylatron®**	ULF™
Dry	0.25	0.18	0.18	0.18
Water	0.20	0.16	0.16	0.16
Soap and Water	0.15	0.14	0.14	0.14
Oil	0.10	0.10	0.10	0.10

Only available in selected Rexnord MatTop Chain.

NR denotes “not recommended,” dash denotes “combination not tested.”

*Friction of returnable bottles will vary depending on the quality of the glass, the amount of roughed up surface, etc.

**Nylatron is a registered trademark of Quadrant Engineering Plastics Products.