

## Exceptional Service

With the shortest turnaround times in the industry, AFC has built its reputation upon its extraordinary service capabilities. Customer service hours are from 8:30 AM to 6:00 PM EST.

- Same Day Emergency Services:  
Most orders placed before 1:00 EST
- Next Day Emergency or Expedited Services
- Normal Service: Ships within five working days

## Experience That Matters

Many companies in the industry boast of long and proud histories. However, no company can match AFC's over 150 years of combined senior management expertise.

As an experienced leader, AFC welcomes the challenges that less experienced companies cannot address; AFC calls them opportunities. While many companies have come and gone during the last 15 years, AFC has proven itself time and again to be a solid, grounded and dependable business partner. One that prides itself as a self-motivating, entrepreneurial spirited company. Perhaps our customers say it best.



*"When you consider service, reliability and quality, AFC is a consummate supplier. Add to those qualities their flexibility, innovative abilities and knowledgeable customer service staff with a "can do" attitude, you have a company that makes doing business a truly pleasurable experience."*

AFC Customer

## About AFC?

**Advanced Flexible Composites (AFC)** is a customer-focused, high performance composites company. Founded in 1988, AFC, a family-owned and operated business, has grown to become one of the most respected companies in the industry. With over 150 years of combined industry experience, AFC's employees are committed to delivering high quality, reliable products that are tailored to the needs of our customers. Three key principles have driven AFC's success: Innovation, Quality and Service.

AFC designs and manufactures PTFE and silicone-coated fabrics and belting, along with an extensive line of pressure sensitive tapes for use in diverse industrial applications worldwide. Typical applications for AFC's products are found in industries such as aerospace, flexible packaging, screen printing, textile, polymer manufacturing, food processing, chemical, electronics and communications.

AFC prides itself in being a highly innovative, solution-oriented company. Through the establishment of strategic customer alliances, we have identified opportunities and developed new products that make significant improvements in customer applications. These partnerships could not be possible without the commitment to customer service—a cornerstone of our success. This customer focus has enabled AFC to gain the reputation for the best on-time deliveries while having some of the shortest lead-times in the industry.

In today's climate of acquisitions, mergers and consolidations, AFC is committed to remaining an independent company. Our vision is to become recognized as the most customer-focused supplier in the flexible composites industry. We will get there by our continued focus and commitment to Innovation, Quality and Service.

With multiple modern, US based manufacturing facilities, AFC is strategically positioned to best serve its domestic customers and global partners.



**Advanced Flexible Composites, Inc.**

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**Products**  
THAT WORK

**Service**  
THAT COUNTS

**Experience**  
THAT MATTERS

# Go With The Leader!



**DuraFlow® PTFE conveyor belting, heat sealers and field installation training for the steel and aluminum can industry.**

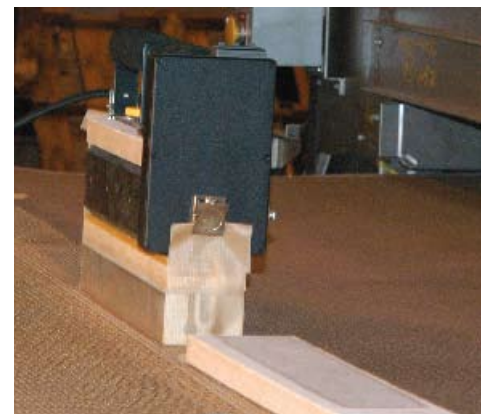
- Lower Energy Costs
- Reduce Spoilage
- Lower Maintenance Cost
- Integrated Supplier
- Field Service & Training
- Eliminate Metal Particles and Grease
- Affordable Belt Replacement Cost
- Easy Installation
- Reduce Down Time
- Increase Efficiencies



# DuraFlow® High Performance Conveyor Belting



DuraFlow® belting combines superior surface, strength and air flow to give you the best overall value for the steel and aluminum beverage and food packaging industry. These unique material characteristics combined with our 20 years of conveyor belting experience make DuraFlow® the ideal fabric for the PTFE coated fiberglass and Kevlar conveyor belting.



## Heat Sealers

AFC heat sealers are specifically designed to seal PTFE coated fabrics and conveyor belts. AFC provides a complete sealing package including heat sealers, high temperature bonding film, silicone release cloth, silicone rubber covered hand rollers, mineral board, seam prep kits and spare parts. In addition to heat-sealing products, AFC offers services such as; field installation of PTFE conveyor belts, design of belt seams and tracking mechanisms, training for end-users regarding the use of AFC heat sealers as well as heat sealer rentals.

## Typical Applications

### Internal Coating (IC) Ovens for Aluminum Beverage Cans

We recommend either a DuraFlow® 27-30 or 27-48 PTFE coated fiberglass belt for this application. The oven is a simple forced air circulating dryer. Most end-users prefer AFC DuraFlow® 27-30 due to the thinness of the seam when a heat sealed seam is used. The thin seam reduces spoilage (can tip-over) at the transfer points. AFC has also provided DuraFlow® 27-48 when the end user is seeking a more heavily coated and stronger fabric.

### Washer Ovens/Aluminum and Steel Cans

This application is for the dryer oven that follows the can washer. It receives the wet can as it exits the washer and is conveyed through the dryer. We recommend our DuraFlow® 57-27 PTFE coated Kevlar belt. DuraFlow® 57-27 is the ideal material in high moisture environments.

### IC Ovens/Steel Cans

DuraFlow® 27-30 and 27-48 are again the PTFE belting of choice in this application.

### Aerosol Cans

The coating used in aerosol applications is tackier, thicker and heavier. This will cause premature failure when using standard open mesh fabrics. We recommend our DuraFlow® 27-48 in these applications. DuraFlow® 27-48 has approximately 35% more PTFE coating compared to standard open mesh fabrics. We have found that our 27-48 belting lasts as much as 50% longer than the standard competitive PTFE belts.

## DuraFlow® Belt Design Guide

### 1. Select Belt Fabric (from table below)

Need help? Contact your Distributor, OEM, or a member of AFC's customer Service team to help you determine the belt that would be best for your application.

Product ID	Color	Nominal Thickness	Tensile <sup>1</sup> Lbs. per inch of width	Recommended Min. Pulley Diameter	Maximum Width (inches)
27-30	Tan	0.030"	311	6"	125
27-48	Tan	0.048"	359	6"	125
57-27	Yellow	0.027"	350	3"	125

### 2. Determine Belt Dimensions

- Width (edge to edge)
- Net Endless Length (continuous [closed] belt length)
  - If your existing belt is in good condition:** Lay belt on the floor and measure from one end of the belt to the other end.
  - If your belt is badly deteriorated:** Center the take-up pulley and measure the path of the belt through the dryer using a tape measure.

### 3. Edge Reinforcements:

We recommend a 1" sealed and sewn film edge reinforcement with PTFE thread for the can industry.

### 4. Choose a Splice

We recommend a simple heat sealed overlap splice/seam for can line dryers and ovens. We have found these splice/seams to be superior to any of the other seams commonly offered for this type of conveyor belting. Overlap splices/seams are typically installed at the customer's site. Benefits to this type of splice/seam include:

- Lower profiles provide smooth transfer at dead plates.
- Seam strength equivalent to the belt strength.
- Minimal blockage of air flow.
- Belt size and measuring flexibility.

When the gap at the transfer plates allow, you may also use mechanical splices/seams. AFC offers both an Alligator and Clipper mechanical splice/seam.

<sup>1</sup>Disclaimer: All figures provided in the above table are based upon ASTM D 4969-97, the Standard Specification for Polytetrafluoroethylene (PTFE) Coated Glass Fabric. The above PIW values are based upon the ASTM D828 test method and are not actual values of AFC's materials. The above tensile values are 80% of the figures provided in Table 6 of specification D579. AFC states that its actual tensile will be greater than the above material specification and that actual tensile values will be provided upon request. Edge Tear values are based upon ASTM D1424 (Elmendorf Tearing Test) and are average values that can vary.

## What is PTFE?

Polytetrafluoroethylene (PTFE), a fluorocarbon plastic, is a plastic in which the hydrogen normally found in association with carbon inorganic materials has been replaced with fluorine. The resulting polymer possesses a number of unique properties: inertness to chemicals; fire resistance (will not support flame); excellent weathering resistance; low friction (second only to ice); superior release and anti-stick properties; flexibility; extreme heat and cold resistance; outstanding electrical, insulative and dielectric properties; and resistance to ultraviolet, infrared, microwave and radio frequency.

## Characteristics

- Release**  
The release characteristics of PTFE are better than any comparable high temperature belting material.
- Low Friction**  
The lowest coefficient of friction of any belting material.
- Dimensional Stability**  
PTFE coated fabrics remain stable under normal mechanical loads even at elevated temperatures up to 500°F (260°C).
- Temperature Stability**  
PTFE belting can operate in temperatures from 100°F to 500°F.
- Cleanability**  
PTFE belting is unaffected by most solvents and chemicals used to keep surfaces clean. Contact an AFC representative to inquire about a specific solvent and cleaning system.

## Why AFC?

The company's track record of accomplishment, coupled with its vast experience, makes it the logical business partner for customers interested in success. AFC makes the difficult look routine.



## Core Values

### Innovation

AFC has a history of developing new and innovative products for its customers. Evidence of their innovation can be seen in its listing of proprietary products and its patent activity.

*"AFC has developed new products for us to bring to our customers. A small company like ours could not survive without a partner like AFC."*  
AFC Customer



### Quality

AFC has dedicated itself to meeting the most rigorous standards in each product it is involved in producing, with particular focus placed on quality production techniques.

*"We have dealt with several manufacturers, and AFC's product quality is superior, as is their customer service. AFC is always helpful; if an immediate answer is not available, a call back is always received promptly. I look forward to many more years of working together."*  
AFC Customer



### Service

The cornerstone of AFC's success has been its steadfast commitment to customer service and satisfaction.

*"AFC's delivery history and customer service have helped us grow our sales in new markets. Their technical assistance and customer service has helped us grow our business. We are proud to have them as a member of our team."*  
AFC Customer