

## DeltaHeat®

### It Can Take the Heat!

Prolonged exposure to high temperature payloads and abrasive materials can quickly degrade your conveyor belt, causing unplanned downtime and frequent conveyor belt change-outs. Without the proper hot material compound, your belt will crack and harden before expected performance life. Fenner Dunlop has addressed tough, high heat conveying challenges by developing DeltaHeat® to resist belt degradation and burn-through.

DeltaHeat® is Fenner Dunlop's premium hot material compound designed to resist the negative effects of cover cracking, hardening, flexing, tearing and abrasion associated with high temperature environments. When paired with Fenner Dunlop's PSR®, UsFlex® and HotShot® conveyor belting product lines, DeltaHeat® will protect your investment in a variety of operations such as cement plants, steel mills, foundries, and in conveying iron ore and taconite.

### Reasons to Count on DeltaHeat®

- Greater resistance to cover cracking and hardening - less cracking means less clean up!
- Resists belt burn through from high heat material
- Excellent abrasion resistance
- Rip resistance 3 times greater than comparable belts
- Poly/Nylon construction yields better puncture resistance, a lower modulus and better flexibility
- Exceeds ARPM-HR Class 3 standards
- Temperature resistant to 400° F (205° C) for abrasive coarse lumps (2 in +/50 mm+) and 350° F (175° C) for abrasive fines
- Meets class 3 permissible values outlined in ISO 4195 regarding high temperature testing

### Applications

Hot Cement Clinker  
Iron Ore Pelletizing Plants  
Hot Foundry/Casting Plants  
Sintering & Coking Operations  
Steel Mills  
Smelting & Refining Operation  
Taconite Pellets  
Hot Slag  
Calcined Lime  
Furnace Hot Material



DeltaHeat protects against high temperature payloads.

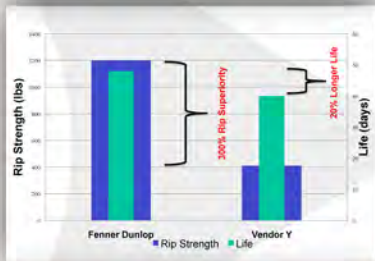
## The Proof is in the Testing!

To prove that DeltaHeat truly is formulated to yield greater service life than the competition, Fenner Dunlop performed a Heat Age Flex Test at 302° F and 350° F (complete belt bake) on its own 3-ply PSR® DeltaHeat product versus a leading competitor's 3-ply belting product armed with a comparable compound. The results were impressive.

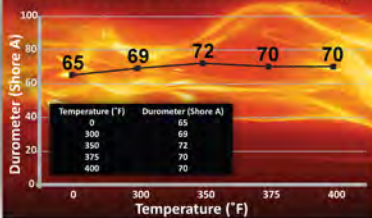
- **Heat Age Flex Testing at 350° F proved DeltaHeat to have 20% greater service life and heat resistance than the competitive belt**
- **The competitive cover cracked at 960 hours, while DeltaHeat showed no signs of cracking**
- **PSR DeltaHeat was 3 times more rip resistance than the competitive 3-ply belt**
- **Fenner Dunlop's poly/nylon carcass construction is more puncture resistant, with a lower modulus, than competition's poly/poly construction**
- **DeltaHeat displayed greater adhesion values**
- **DeltaHeat exhibited improved abrasion characteristics**

***Don't be fooled by other manufacturer claims of 750° F to 1000° F protection! Fact is, nylon/polyester belts melt at 550° F.***

### Heat Age Flex Test at 350° F



### DeltaHeat Hardness at Elevated Temperatures ISO 4195 Standard - Accelerated Heat Aging



*DeltaHeat is designed to resist the negative effects of hardening associated with high temperature environments. It also retains its core initial hardness at elevated temperatures resisting cover cracking longer than the competition.*



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