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XTREME**OptimaHeat**
XTREME**NEXT GENERATION SINGLE UNIT CARCASS
DESIGNED FOR HIGHER HEAT APPLICATIONS****PATENTED DUAL CRIMP
WEAVE CARCASS****A PEAK TEMPERATURE
UP TO 400°C**

WITHSTANDING THE HEAT!

Of all the demands placed on conveyor belts, heat is usually the most unforgiving and damaging. High-temperature environments accelerate the aging process, which causes the rubber to harden and crack. Heat also has a seriously harmful effect on the belt carcass itself, because it damages the adhesion between the cover and the carcass and between the fabric plies contained within the carcass. This causes the belt to fall apart. As rubber becomes harder and less elastic due to the exposure to heat, the tensile strength and the elongation at break can fall by as much as 80%. This effectively destroys its operational strength and flexibility. At the same time, abrasion resistance can decrease by as much as 40% or more!

NEXT GENERATION HOT BELT HAS ARRIVED!

Optima Heat Xtreme is a revolutionary single-ply high heat resistant belt that utilises an amazingly tough patented super strength fabric that is exclusively produced in our own in-house weaving facilities in the USA. Unlike conventional multi-ply belting, the fabric has exceptional resistance to ripping, tearing and impact. Protecting the carcass is a high heat resistant rubber compound engineered to withstand maximum continuous material temperatures as high as 200°C and extreme peak temperatures as high as 400°C. In addition to its ability to resist the usual hardening and cracking caused by exposure to extreme temperatures, the major advantages of the Optima Heat Xtreme rubber are its excellent physical properties including resistance to abrasive wear and superior adhesion strength.



WE ARE HERE TO HELP

For more information on this subject please contact your local Dunlop sales representative or Dunlop's Application Engineering team on **+31 (0) 512 585 555**.

Key applications

**Cement Plants****Foundries****Lime Plants****Coking Plants****Steel Plants****Ore Processing Plants**

KEY FEATURES

- ✓ **Withstands maximum continuous material temperatures as high as 200°C and extreme peak temperatures as high as 400°C**
- ✓ **Resists hardening and cracking caused by exposure to extreme temperatures**
- ✓ **Exceptional resistance to ripping, tearing and impact**
- ✓ **Superior abrasion resistance and adhesion strength**
- ✓ **Much higher level of splice efficiency**
- ✓ **Well suited for relatively small pulleys and drums**
- ✓ **Ozone & Ultra violet resistant**
- ✓ **Reduced maintenance and downtime**
- ✓ **Lowest lifetime cost**
- ✓ **REACH compliant**
- ✓ **Two-year quality guarantee**



THE TOTAL PACKAGE

Optima Heat Xtreme provides the longest life and the lowest cost per ton.

CARCASS

High temperatures within the inner carcass of a multi-ply heat resistant conveyor belt can cause the plies to separate, resulting in catastrophic failure. The term used to describe this is 'de-lamination' and is one of the most common reasons why belts claiming to be heat resistant fail and need to be replaced prematurely. Having a super strong mono-ply carcass means that Optima Heat Xtreme is not prone to this type of problem. Added to that, the outstanding resistance to ripping, tearing and impact is also less susceptible to accidental damage caused by trapped objects. The powerful combination of heat resistance, strength and splice reliability means that Optima Heat Xtreme is as close to being a 'fit and forget' heat resistant belt you will ever find.

KEY CHARACTERISTICS:

- Stronger adhesions due to fewer ply's and skim rubber
- More flexible around larger pulleys due to high heat designed carcass
- Maintains impact, rip and tear benefits under extreme and high heat conditions

COVER

The rubber that protects the inner carcass has been specifically designed and manufactured in-house by Fenner Dunlop engineers and scientists to provide a long working life, even under the toughest conditions. Optima Heat Xtreme rubber is able to provide prolonged resistance against the effects of accelerated ageing commonly found in conventional heat resistant belts.

KEY CHARACTERISTICS:

- Better heat aging
- Better abrasion resistance
- Improved cracking resistance
- OptimaHeat has 200°C of maximum continuous operating temperature & a peak temperature of 400°C peak



Ozone and UV resistant according to EN/ISO 1431 in order to avoid premature failure due to cracking and degradation of the belt surface.



Manufactured in compliance with REACH (Registration, Evaluation and Authorisation of Chemical substances) regulation EC1907/2006.



Two-year quality guarantee. Guaranteed against faulty workmanship and materials for 24-months.

SPLICE KITS FOR OPTIMA HEAT XTREME

Dunlop provides a full range of high quality splicing services. We also supply 'endless' belts for a wide range of plant and machinery. All Dunlop endless belting is produced by highly trained Dunlop personnel working in our European Dunlop facilities using the most up to date technology and top quality Dunlop splicing materials and splicing presses. Unlike rival manufacturers, the work is not sub-contracted out to third parties. We control of the quality of the belts that we deliver to our customers from beginning to end. Splicing is also carried out by our network of wholly owned Dunlop Service centres who in addition to on-site splicing also provide splice supervision, training and on-site labour assistance. All of this is supported by our excellent network of officially approved Dunlop Service Partners.

OPTIMA X-BOX VULCANIZED SPLICING KITS

Optima Heat Xtreme high heat resistance pre-assembled Optima-X Box finger splice kits contain matching compound materials, saving time and making finger splicing easier and safer while also decreasing the risk of contamination in dusty environments.

Optima Heat Xtreme splice materials are only available for purchase as a kit. For more details on our finger splicing technology, please contact your Dunlop Account Manager.



All information and recommendations in this bulletin have been supplied to the best of our knowledge, as accurately as possible and updated to reflect the most recent technological developments. We cannot accept any responsibility for recommendations based solely on this document.