

Conveyor Belting



ALLRUBBER

PRODUCT INFORMATION

CONVEYOR BELTING

Our world class conveyor belts are the lifeblood of the businesses we supply.

All Rubber has its own brand of Eagle conveyor belts that are built to meet the highest performance parameters. They're manufactured to our own unique specifications, which exceed national Australian standards.

We have a wide range of standard belts but can also custom manufacture belts to your unique specifications, whilst complying with AS or DIN standards.



Fabrics & Compounds

FABRICS

Our premium quality fabrics comes in a range of options and are used in a wide variety of applications. Standout features include high adhesion levels between cover and plies, low elongation, a smooth finish and extreme resistance to abrasive materials. This results in great field performance and service life.

COVER COMPOUNDS

The cover compounds we have available have been specifically formulated to achieve high physical properties of abrasion, tear, cut and gouge resistance. We have 5 standard cover grades in natural and SBR (synthetic) rubber which are outlined below. Specific cover grades are also available for applications such as heat, food and chemical resistance.

PLYS, WIDTHS AND COVER THICKNESSES

PLY

Belts can be manufactured in 2, 3 or 4 ply as standard. 2 ply is generally used for light industrial environments such as recycling plants, 3 ply for light to medium applications such as mobile crushers and 4 ply for heavy industrial environments such as mining and brickwork.

WIDTHS

Our stocked widths range from 350mm up to 2400mm without longitudinal joints.

COVER THICKNESSES

Our stocked thicknesses range from 1.5mm to 21mm top cover and 1.5mm to 7mm bottom cover.

Nb. Higher widths and cover thicknesses can be produced on request. 5 to 8 ply is also available on request.

Grade	Material	Properties
N Grade	Predominantly SBR rubber	Good all-purpose properties
M Grade	Natural rubber polymer	Excellent resistance to cut and tear
E Grade	Polymer blend	Specially compounded to have anti-static properties
HAR Grade	Polymer blend	Excellent abrasion resistance
XCG Grade	Polymer blend	Superior resistance to cut and gouge

Carcasses and Reinforcement



POLYESTER / NYLON FABRIC (PN)

PN conveyor belts consist of a synthetic woven fabric, utilising a polyester fibre for warp and a polyamide (nylon) fibre for weft.

- Lower stretch and high resistance to tension
- Greater resistance to moisture, mildew, and rot
- Less influence under temperature
- Excellent toughness
- Excellent resistance to impact
- Very good resistance to chemicals



CROWS FOOT WEAVE (CFW)

Crows Foot Weave belts are used when high impact and tear resistance is required. These belts are specially designed to withstand high abusive loading, providing a much longer service life in these environments than conventional belts.

- High tear resistance of belt
- up to 2.5 times higher than conventional EP / NN belt constructions.
- High impact absorption capability
- Allows abusive loading where conventional belts fail.



NYLON / NYLON FABRIC (NN)

NN conveyor belts utilize a nylon fibre for warp (along the belt) and nylon weft (across the belt) cross woven fabric reinforcing.

- Exceptional shock and impact resistance to the carrying surface
- Superior fastener holding ability
- Excellent troughability and flexibility
- Excellent resistance to water and mildew
- High strength



SOLID WOVEN (SW)

Solid woven belting is used in mining industries and power stations where fire-resistance and anti-static properties are required. It's made by dipping solid woven fabric into liquid PVC and adding PVC or PVG covers bonded by vulcanising.

- Good flame resistant and antistatic properties.
- High tensile strength in proportion to weight.
- Good integrity and no delimitation.
- Excellent impact and rip resistance



STEEL CORD (ST)

Steel Cord belting is used in industries where strength is vital to convey materials and where operating tensions required exceed 200 kN/m. We have steel cord belts with a rating up to ST 10,000 and, due to the numerous advantages of this type of belt, we now offer a rating as low as ST 500.

- Long life expectancy; they are virtually maintenance-free
- Large centre distances
- Low pulley diameters
- Low elongation means high impact resistance
- Excellent troughability
- Easily reconditioned and rejuvenated

FRAS/FRAS S

Fire is an increasing risk to conveyor systems in many different applications. FRAS (Fire Resistant and Anti-Static) rubber is a specialised form of rubber that has high resistance to fire and ozone.

This is achieved by using a combination of polymers, chemicals and additives which contribute to improving fire retardant properties of a conveyor belt.

FRAS

We have a variety of fire resistant and retardant belts available to mitigate different levels of risks in the workplace and ensure you comply with industry health and safety regulations. Our belts are fire resistant, anti-static and easy to splice or repair using standard materials.

Standard FRAS is generally used above ground and we have a range of these available including FRAS K, FRAS OR (Oil Resistant), and FRAS SAR (Super Abrasive Resistant).

FRAS S

All our FRAS S belts have been independently tested by Safework NSW to ensure they are industry compliant. Our 3 and 4 ply belts are certified as well as our steel cord belts, with 5 ply in the process of testing and certification. We've supplied several big mining companies including Xstrata (now Glencore) and Anglo American.

FRAS S is generally used below ground in underground coal mines, power plants, sulphur conveying and other high-risk areas.



Specialty Belting

Our dedication to innovation means we are continually delivering products which stay one step ahead of the competition.

Our corrugated sidewall belts represent one of the biggest advances in the conveyancing of bulk material at steep inclines and it doesn't stop there. We have a wide variety of specialty belting available to suit a diverse range of applications:



OIL RESISTANT – when conventional conveyor belts come into contact with oil they tend to swell, leading to belt failure. Our oil resistant belts have a high degree of chemical resistance as well as being oil resistant. They also prevent material build up and reverse troughing.

HEAT RESISTANT – used in manufacturing processes where heat generation is involved or conveying hot material is required, our heat resistant belts are the perfect choice to avoid cover hardening, ply delamination, belt deformation and joint failure.

ANTI-STATIC BELTS – we have E grade (anti-static) and MORE grade (moderate oil resistant anti-static) belts that are used mainly in grain handling and where explosive environments are possible.

CLEATED BELTS – designed to increase transmission power from the drive pulley to the belt, our cleated belts offer an increased friction coefficient that helps maintain belt tension and improves belt tracking. They also aid self-cleaning and enhance service life by reducing wear. Reduced noise levels are another benefit.

CLEATED SIDEWALL BELTS – developed for conveying along very steep inclines of up to 90 degrees, these belts are highly flexible and can switch from horizontal to inclined conveying (and vice versa). They can be easily adapted to different layouts and arrangements to suite their usage and can increase transport capacity by up to 4 times compared to traditional belts with the same width. They are a great space saver with low maintenance costs.

KEVLAR BELTS – our Kevlar belts can perform in very demanding conditions. They are heat and corrosion resistant with low creep properties, they have exceptionally high strength to weight ratio and are chemical resistant and fire retardant.

TRULY ENDLESS BELTS – these are manufactured without joins or splices for high-performance drive and conveying applications. Truly endless belts offer many advantages and benefits for demanding applications and outperform conventionally joined flat belt designs.

NEGATIVE GROOVED BELTS – mainly used in grain handling to accelerate the take up and flow of materials, our negative grooved belts have good weather and water resistance as they are mostly used in external environments.



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