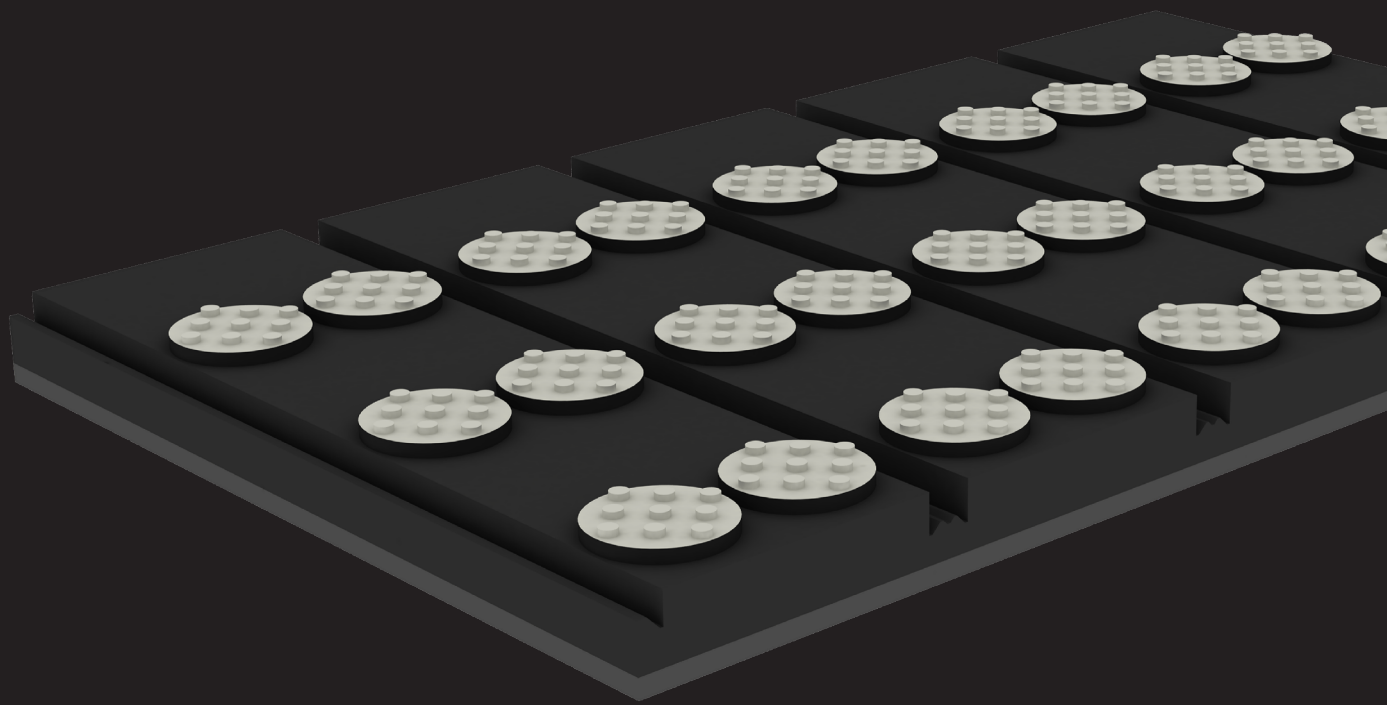
elastotec™

Medium Double Row 32% Ceramic Cold Bond Lagging



Engineered to Perform

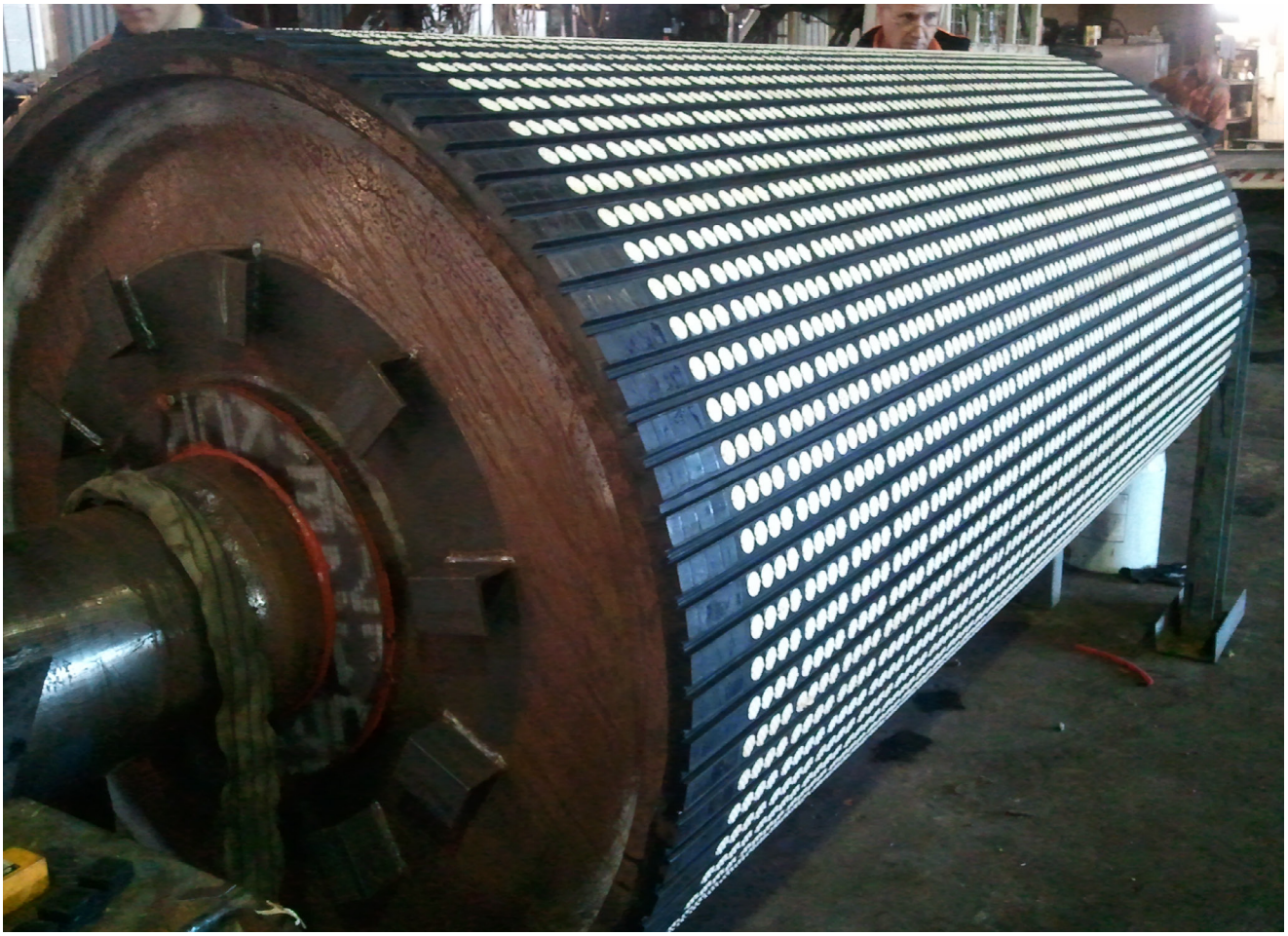
Description

Elastotec Medium Double Row 32% Ceramic Cold Bond Lagging is designed for use on Drive and Non-Drive pulleys, in light and medium duty cold bond applications.

Elastotec Double Row 32% Ceramic Cold Bond Lagging is available in various thicknesses and rubber compounds, and can be to be cut to length to suit any pulley face width. This significantly reduces lead time, as rolls can be held in stock rather than waiting for strip lengths to be manufactured and delivered to suit each pulley.

Application

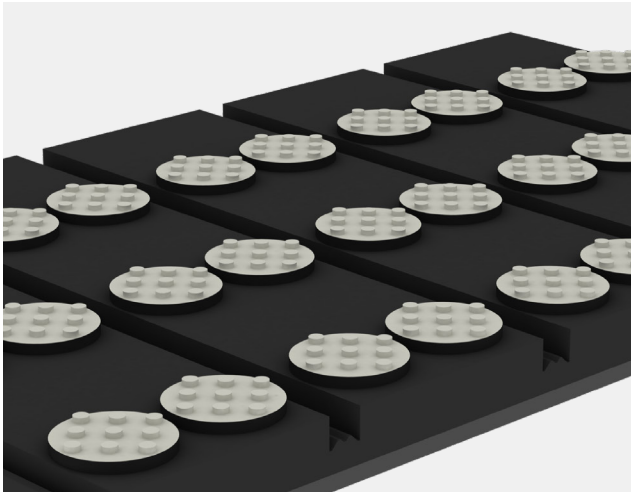
This product is designed for use in low and medium belt tension applications, and can be applied to conveyor drive, tail, snub, bend or take-up pulleys. Supplied as a bulk roll, strips can be cut slightly longer than the pulley face width and then trimmed flush with the edge of the pulley shell to improve adhesion and sealing of the pulley shell. This lagging is suitable for use on pulleys operating in mining, quarrying, minerals, metal processing, and agricultural industries.



Key Features and Benefits

- Round >92% Aluminium oxide tiles that provide traction and high wear resistance.
- Rubber compound blended with CN polymers provides outstanding adhesion to ceramic tiles, rubber, and metal.
- Buffed CN bonding layer for optimum cold bond adhesion to the pulley shell.
- Available in a range of rubber compounds, including NAT/SBR and FRAS/MSHA certified compounds.
- Round ceramic tiles bonded using a proprietary system to resist tile cracking and prevent tiles being pulled out.
- Supplied as a bulk roll to minimise waste, and for safe and efficient transport, storage, and handling.
- Bulk rolls can be cut into strips to suit any pulley size.
- Product width is 250mm to allow for safe and precise installations, with consistent adhesion over the full surface area.
- Dimpled tiles for increased grip on drive pulleys, and smooth tiles on non drive pulleys to provide wear resistance and protect the belt cover.
- Cutting sipes allow adjustment of strip width to suit pulley diameter.
- Available in a wide range of thicknesses to suit a range of pulley sizes and applications.







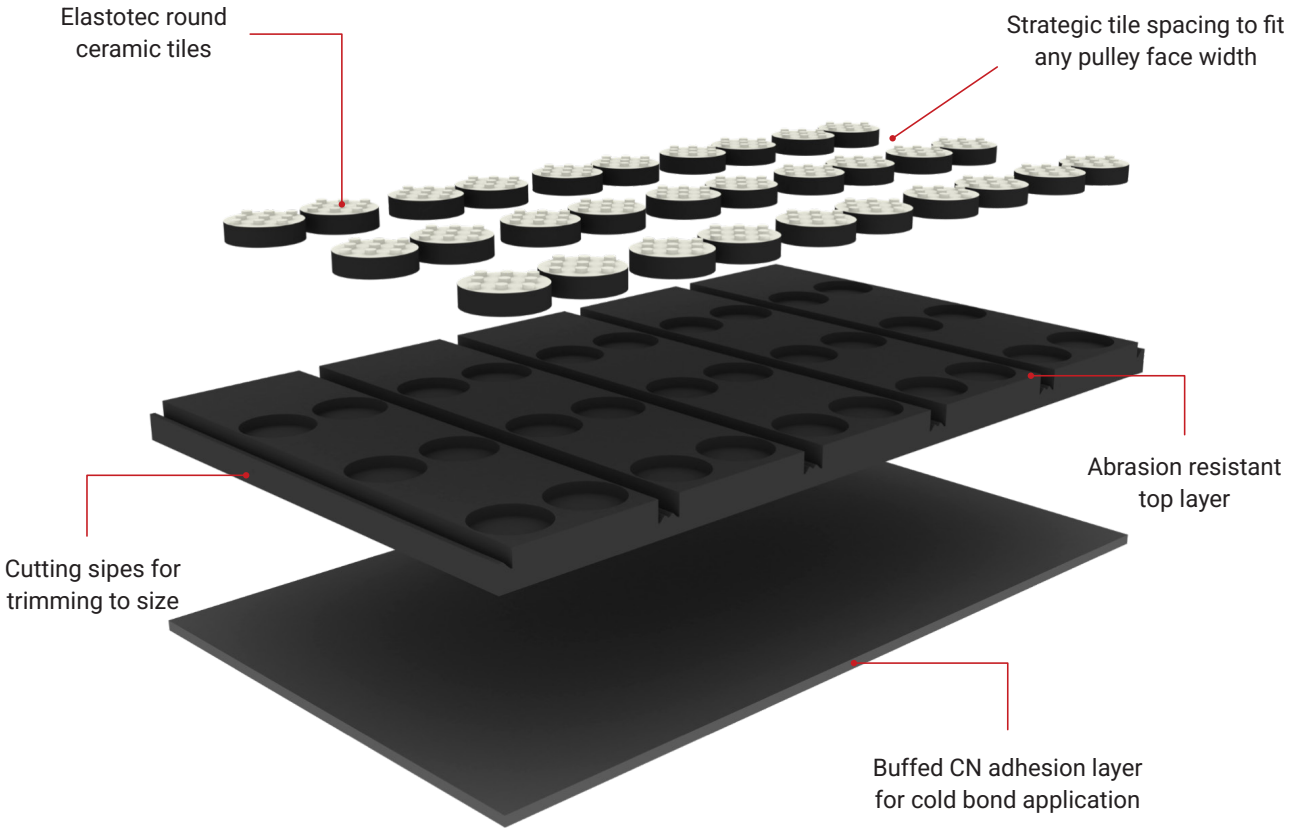
Design



Elastotec Double Row 32% Ceramic Cold Bond Lagging is designed to improve friction, and fit any pulley face width without cutting through tiles.

Ceramic coverage of 32% improves friction and wear resistance in light and medium duty applications. The rubber spacing between each tile allows for strips to be cut to suit any pulley face width, and the lagging will go all the way to the edge of the pulley shell to improve adhesion and edge sealing.

Elastotec ceramic pulley lagging is made using two different rubber layers extruded together. The top layer being the high abrasion resistant layer to which the tiles are vulcanised into, and the bottom layer being the adhesion CN bonding layer. Elastotec's specially formulated neoprene based CN bonding layer is engineered to achieve ultimate adhesion when cold bonded to steel pulley surfaces.



Rubber Specifications

Typical values

Polymer	SBR	Blend
Tensile strength (MPa) min ISO37	18.0	16.0
% Elongation min ISO37	550%	500%
Hardness (shore A) ISO868	65+/-5	65+/-5
Abrasion resistance max vol. loss ISO 4649 method A (non-rotating)	70mm^3	150mm^3
FRAS – MDG3608 and MSHA Standards	N/A	PASS/ACCEPTED
Heat ageing (Property change after 70°C 168hs)	Tensile strength +1% Elongation -15% Hardness 5 points	Tensile strength +5% Elongation -1% Hardness 3 points
Continuous operating temperature	-40/+70°C	-40/+70°C

Ceramic Specifications

Typical values

Aluminium oxide	>92%
Specific gravity g/cm3	>3.60
Vickers hardness HV (10)	>1000
Flexural strength (Mpa)	>260
Compressive strength (Mpa)	>1200
Fracture Toughness (Mpa m1/2)	>3.4





NAT AND FRAS

Elastotec Rubber and Ceramic Laggings are available in both SBR (NAT) and FRAS approved compounds. FRAS lagging is MDG3608 certified and MSHA accepted, made of a fire resistant and antistatic compound that is primarily used in applications where there is a risk of fire and/or explosion as a safety precaution. These applications include underground coal mines, power stations, grain handling facilities and sugar terminals. Elastotec uses blue coloured inserts to identify SBR (NAT) rubber products and red coloured inserts to identify FRAS rubber products.







ELASTOTEC LAGGING CAN BE APPLIED TO PULLEYS BY COLD BONDING OR BY HOT VULCANISATION.

ELASTOTEC COLD BONDING RUBBER LAGGING

Elastotec Cold Bonding Rubber Lagging has the CN buffed bonding layer packed in plastic to protect and keep it fresh and free from contamination until application to the pulley.

A rubber tear bond is achieved by using Elastotec Metal Primer 2205 and Elastotec Cold Bonding Adhesive to chemically interlock with the CN bonding layer, making a strong interface between the layers.

An Elastotec approved applicator using the Elastotec application procedure will achieve reliable adhesion levels that exceed the 9 N/mm industry standard and are typically at 12 N/mm.

ELASTOTEC HOT VULCANISING RUBBER LAGGING

Elastotec Hot Vulcanising Rubber Lagging has a 1.2mm thick uncured rubber layer applied to the back and sides of the lagging.

Hot Vulcanising Lagging is supplied packed in plastic to protect and keep the uncured bonding layer fresh and free from contamination until application to the pulley.

Application by a trained Elastotec approved applicator using the Elastotec application procedures will guarantee a 100% rubber tear bond between the lagging and the pulley shell with typical adhesion values exceeding 20 N/mm.





LAGGING SPECIFICATIONS – MEDIUM DOUBLE ROW 32% CERAMIC LAGGING

COLD BONDED – NAT

DIMENSIONS DIMPLE TILES

PRODUCT	CODE	WIDTH	THICKNESS	MAX ROLL LENGTH	WEIGHT/ lm
Medium Double Row 32% Ceramic Cold Bond Lagging 12mm	**ELA-DRC32-N-12K**	250mm-252mm	12mm-13mm	58.2m	4.19kg
Medium Double Row 32% Ceramic Cold Bond Lagging 15mm	**ELA-DRC32-N-15K**	250mm-252mm	15mm-16mm	48.5m	4.84kg
Medium Double Row 32% Ceramic Cold Bond Lagging 20mm	**ELA-DRC32-N-20K**	250mm-252mm	20mm-21mm	38.8m	5.23kg

DIMENSIONS DIMPLE TILES

PRODUCT	CODE	WIDTH	THICKNESS	MAX ROLL LENGTH	WEIGHT/ lm
Medium Double Row 32% Ceramic Cold Bond Lagging 12mm	**ELA-DRC32-N-12P**	250mm-252mm	12mm-13mm	58.2m	4.39kg
Medium Double Row 32% Ceramic Cold Bond Lagging 15mm	**ELA-DRC32-N-15P**	250mm-252mm	15mm-16mm	48.5m	5.04kg
Medium Double Row 32% Ceramic Cold Bond Lagging 20mm	**ELA-DRC32-N-20P**	250mm-252mm	20mm-21mm	38.8m	5.43kg

COLD BONDED – FRAS

DIMENSIONS DIMPLE TILES

PRODUCT	CODE	WIDTH	THICKNESS	MAX ROLL LENGTH	WEIGHT/ lm
Medium Double Row 32% Ceramic Cold Bond Lagging 12mm	**ELA-DRC32-F-12K**	250mm-252mm	12mm-13mm	58.2m	4.49kg
Medium Double Row 32% Ceramic Cold Bond Lagging 15mm	**ELA-DRC32-F-15K**	250mm-252mm	15mm-16mm	48.5m	4.79kg
Medium Double Row 32% Ceramic Cold Bond Lagging 20mm	**ELA-DRC32-F-20K**	250mm-252mm	20mm-21mm	38.8m	5.59kg

DIMENSIONS DIMPLE TILES

PRODUCT	CODE	WIDTH	THICKNESS	MAX ROLL LENGTH	WEIGHT/ lm
Medium Double Row 32% Ceramic Cold Bond Lagging 12mm	**ELA-DRC32-F-12P**	250mm-252mm	12mm-13mm	58.2m	4.69kg
Medium Double Row 32% Ceramic Cold Bond Lagging 15mm	**ELA-DRC32-F-15P**	250mm-252mm	15mm-16mm	48.5m	4.99kg
Medium Double Row 32% Ceramic Cold Bond Lagging 20mm	**ELA-DRC32-F-20P**	250mm-252mm	20mm-21mm	38.8m	5.79kg

Recommendation for lagging thicknesses suitability for pulley diameters:

12mm, for pulley diameters 350mm and larger
15mm, for pulley diameters 600mm and larger
20mm, for pulley diameters 1000mm and larger



Storage Recommendations

- Stock usage based on a first-in first-out method (FIFO).
- The storage room for lagging must be cool, dry and dust-free.
- Avoid storage places near sources of ozone generating equipment.
- Do not store outside.
- Avoid storage in direct sunlight and strong artificial light as UV light candamage the products and may lead to a premature ageing.
- Under no circumstances should fuels, lubricants, acids, disinfectants, solvents or other chemicals be stored in the same storage area.
- Keep the storage place clean. Protect the material from dust, water etc. with suitable coverings.
- Allow 24 hours before use when lagging is removed from cold storage.

Best Before

COLD BONDING LAGGING AND WEAR PANELS

- Stored <25°C
- Best before: 3 years
- Light buffing of bonding surfaces is recommended if over 4 months from production date.

HOT VULCANISED LAGGING AND WEAR PANELS

- Store below 7°C, away from equipment that generates UV light or ozone.
- Best before: 12 months
- Recommendation: retesting adhesion after this period and contacting Elastotec to discuss the results prior to use.

ADHESIVES AND PRIMERS

- Store in flammable goods cabinet.
- Stored <25°C
- Best before:
  - Primers: 2 years
  - Cold bonding adhesive: 2 years
  - Hot vulcanising adhesive: 12 months

DIRECT BOND ADHESIVE

- Best before: 2 years

Products stored under the above conditions for longer periods of time than recommended need to be re-tested for adhesion before being used.



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