

Medium Single Row Ceramic 38% Lagging



Ceramic Lagging provides a mechanical interlock between lagging and belt on drives and high abrasion resistance on non-drives.

Ceramic Lagging is specified when there is a requirement for:

- More grip than what rubber lagging provides.
- Longer service life as a result of higher wear resistance than rubber.
- Ceramic Lagging with dimple tiles is used on drive pulleys to increase grip.
- Ceramic Lagging with smooth tiles is used on non-drive pulleys to increase wear resistance/service life.

Elastotec Ceramic Lagging can be applied to conveyor drive, tail, snub, bend or take-up pulleys when there's a requirement for more grip than what Rubber Lagging provides or longer service life as a result of higher wear resistance than rubber. Ceramic Lagging is used for pulleys operating under extreme conditions. It is suitable for wet, clay-containing, muddy and abrasive materials. Also, for belts under very high tension. Especially suitable for drive pulleys subject to extreme wear to eliminate slippage.



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Key Features & Benefits:

- ✓ Up to 96% Aluminium oxide tile material provide extreme wear resistance.
- ✓ Rubber compound blended with CN polymers provide outstanding adhesion to ceramic tiles, rubber and metal.
- ✓ Buffed CN bonding layer and buffed edges for optimum cold vulcanised adhesion to the pulley.
- ✓ Low sulphur rubber makes rubber hardness stable with age.
- ✓ Ceramic tiles bonded to rubber on 5 sides to resist better tile cracking and pull out.
- ✓ Can be supplied in cut to size strips with rubber ends to suit customer preference.
- ✓ Dimpled tiles for increased grip on drive pulleys and smooth tiles to protect non drive pulleys from damaging the belt cover.
- ✓ Can be hot vulcanised to the pulley to achieve best bonding to metal pulley shell.
- ✓ Cutting sipes allow adjustment of strip width to suit pulley diameter.
- ✓ Supplied in long rolls up to 50m to reduce waste and be more cost effective and reduce stock requirement quantity as one roll fits all pulley widths.
- ✓ Tile pattern in 100mm segments can be used on all pulley widths.



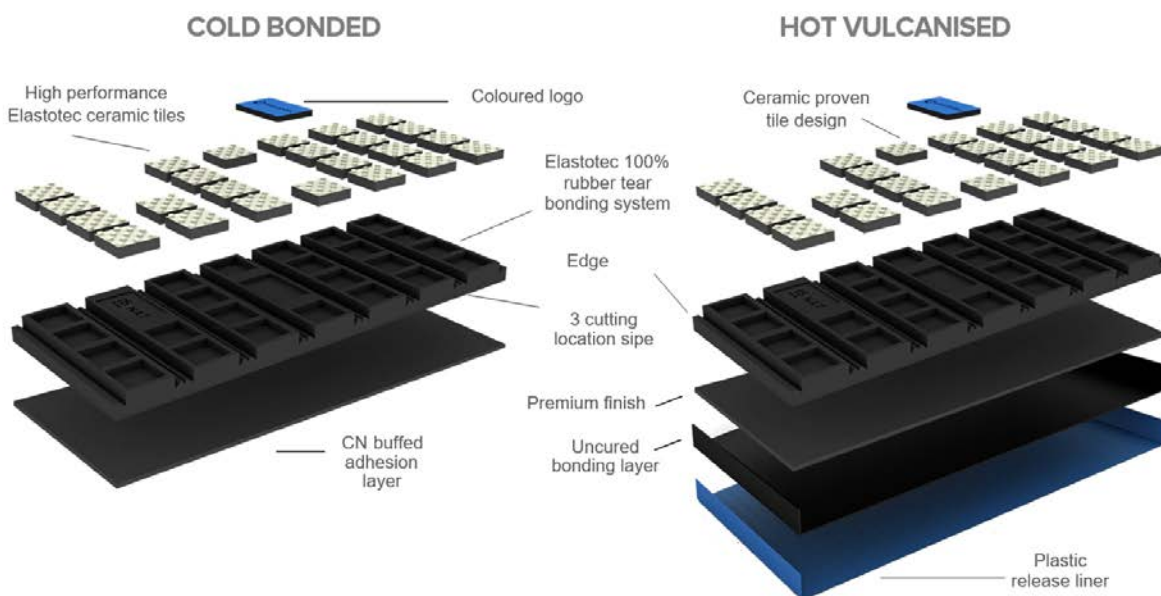
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Elastotec Ceramic Lagging consists of vulcanised alumina tiles bonded onto rubber.

The rubber is bonded to five surfaces of the tile to ensure tile cushioning and better adhesion strength. Tiles provide high abrasion resistance. Flexible rubber backing containing Elastotec rubber compounds is used to provide abrasion resistance and flexibility to the tile.

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 onto 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 bonded to steel pulley surfaces. Elastotec's CN bonding layer has a buffed finish to provide an optimum surface contact area that increases adhesion force.



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Elastotec Ceramic Lagging is 250mm wide to ensure easy handling and application. It can be supplied in thicknesses from 12mm to 25mm. Thicker rubber allows more deflection of the tiles under the belt. This property provides additional reserves with extreme belt tensions, especially in combination with fabric belts with high elongation or low cover thickness on the running side.

It can be supplied in 3 formats:

1.

In long roll lengths that fit on standard sized pallets to eliminate waste and for cost effective transportation and storage. Ceramic Lagging in rolls can be cut to the pulley face width length to have a full-face width ceramic coverage.

2.

For hot vulcanised applications, Ceramic Lagging can be supplied in rolls together with rubber end pieces, which can be added to build your own strips.



3.

In strips with rubber ends to fit pulley face widths.



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RUBBER SPECIFICATIONS

Typical values

	NAT	FRAS
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 - MDG 3608	N/A	PASS
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	96%
Specific gravity g/cm ³	3.7
Vickers hardness HV (10)	1000 plus
Flexural strength (Mpa)	300
Compressive strength (Mpa)	1800
Fracture Toughness (Mpa m ^{1/2})	3.5



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LAGGING SPECIFICATIONS – MEDIUM SINGLE ROW CERAMIC 38% LAGGING

COLD BONDED – NAT

Dimensions Dimple Tiles

PRODUCT	CODE	WIDTH	THICKNESS	LENGTH	WEIGHT/lm
Ceramic Lagging 12mm	ELA-SRC-N-12K	250mm-252mm	12mm-13mm	58.2m	4.19kg
Ceramic Lagging 15mm	ELA-SRC-N-15K	250mm-252mm	15mm-16mm	48.5m	4.84kg
Ceramic Lagging 20mm	ELA-SRC-N-20K	250mm-252mm	19mm-20mm	38.8m	5.23kg

Dimensions Plain Tiles

PRODUCT	CODE	WIDTH	THICKNESS	LENGTH	WEIGHT/lm
Ceramic Lagging 12mm	ELA-SRC-N-12P	250mm-252mm	12mm-13mm	58.2m	4.39kg
Ceramic Lagging 15mm	ELA-SRC-N-15P	250mm-252mm	15mm-16mm	48.5m	5.04kg
Ceramic Lagging 20mm	ELA-SRC-N-20P	250mm-252mm	19mm-20mm	38.8m	5.43kg

COLD BONDED – FRAS

Dimensions Dimple Tiles

PRODUCT	CODE	WIDTH	THICKNESS	LENGTH	WEIGHT/lm
Ceramic Lagging 12mm	ELA-SRC-F-12K	250mm-252mm	12mm-13mm	58.2m	4.49kg
Ceramic Lagging 15mm	ELA-SRC-F-15K	250mm-252mm	15mm-16mm	48.5m	4.79kg
Ceramic Lagging 20mm	ELA-SRC-F-20K	250mm-252mm	19mm-20mm	38.8m	5.59kg

Dimensions Plain Tiles

PRODUCT	CODE	WIDTH	THICKNESS	LENGTH	WEIGHT/lm
Ceramic Lagging 12mm	ELA-SRC-F-12P	250mm-252mm	12mm-13mm	58.2m	4.69kg
Ceramic Lagging 15mm	ELA-SRC-F-15P	250mm-252mm	15mm-16mm	48.5m	4.99kg
Ceramic Lagging 20mm	ELA-SRC-F-20P	250mm-252mm	19mm-20mm	38.8m	5.79kg

Product code for different lengths: Add 5-digit number to indicating length in mm.

Example

Roll: 12mm 58.2 m roll product code: ELA-SRC-F-12K-58200
Strip: 15 mm 1.2 m ceramic length strip product code: ELA-SRC-F-15K-01200
Ceramic strips are supplied with 130mm rubber end pieces at each end.

Thickness variation (all strips/pulley) +/-0.5mm
Ceramic Lagging with thickness >15mm only recommended for pulleys with diameters over 600mm.



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LAGGING SPECIFICATIONS – MEDIUM SINGLE ROW CERAMIC 38% LAGGING

HOT VULCANISED – NAT

Dimensions Dimple Tiles

PRODUCT	CODE	WIDTH	THICKNESS	LENGTH	WEIGHT/lm
Ceramic Lagging 12mm	ELA-SRC-N-12KV	251mm-255mm	13mm-14.2mm	9.7m	4.70kg
Ceramic Lagging 15mm	ELA-SRC-N-15KV	251mm-255mm	16mm-17.2mm	9.7m	5.35kg
Ceramic Lagging 20mm	ELA-SRC-N-20KV	251mm-255mm	21mm-22.2mm	9.7m	5.74kg
Ceramic Lagging 25mm	ELA-SRC-N-25KV	251mm-255mm	26mm-27.2mm	9.7m	6.13kg

Dimensions Plain Tiles

PRODUCT	CODE	WIDTH	THICKNESS	LENGTH	WEIGHT/lm
Ceramic Lagging 12mm	ELA-SRC-N-12PV	251mm-255mm	13mm-14.2mm	9.7m	4.90kg
Ceramic Lagging 15mm	ELA-SRC-N-15PV	251mm-255mm	16mm-17.2mm	9.7m	5.55kg
Ceramic Lagging 20mm	ELA-SRC-N-20PV	251mm-255mm	21mm-22.2mm	9.7m	5.94kg
Ceramic Lagging 25mm	ELA-SRC-N-25PV	251mm-255mm	26mm-27.2mm	9.7m	6.33kg

Dimensions End pieces

PRODUCT	CODE	WIDTH	THICKNESS	LENGTH	WEIGHT/lm
End Piece 12mm	ELA-SR-END-N-12V	251mm-255mm	13mm-14.2mm	130mm	0.44kg
End Piece 15mm	ELA-SR-END-N-15V	251mm-255mm	16mm-17.2mm	130mm	0.52kg
End Piece 20mm	ELA-SR-END-N-20V	251mm-255mm	21mm-22.2mm	130mm	0.57kg
End Piece 25mm	ELA-SR-END-N-25V	251mm-255mm	26mm-27.2mm	130mm	0.62kg



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HOT VULCANISED – FRAS

Dimensions Dimple Tiles

PRODUCT	CODE	WIDTH	THICKNESS	LENGTH	WEIGHT/lm
Ceramic Lagging 12mm	ELA-SRC-F-12KV	251mm-255mm	13mm-14.2mm	9.7m	4.70kg
Ceramic Lagging 15mm	ELA-SRC-F-15KV	251mm-255mm	16mm-17.2mm	9.7m	5.35kg
Ceramic Lagging 20mm	ELA-SRC-F-20KV	251mm-255mm	21mm-22.2mm	9.7m	5.74kg
Ceramic Lagging 25mm	ELA-SRC-F-25KV	251mm-255mm	26mm-27.2mm	9.7m	6.13kg

Dimensions Plain Tiles

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Ceramic Lagging 12mm	ELA-SRC-F-12PV	251mm-255mm	13mm-14.2mm	9.7m	4.90kg
Ceramic Lagging 15mm	ELA-SRC-F-15PV	251mm-255mm	16mm-17.2mm	9.7m	5.55kg
Ceramic Lagging 20mm	ELA-SRC-F-20PV	251mm-255mm	21mm-22.2mm	9.7m	5.94kg
Ceramic Lagging 25mm	ELA-SRC-F-25PV	251mm-255mm	26mm-27.2mm	9.7m	6.33kg

Dimensions End pieces

PRODUCT	CODE	WIDTH	THICKNESS	LENGTH	WEIGHT/lm
End Piece 12mm	ELA-SR-END-F-12V	251mm-255mm	13mm-14.2mm	130mm	0.50kg
End Piece 15mm	ELA-SR-END-F-15V	251mm-255mm	16mm-17.2mm	130mm	0.60kg
End Piece 20mm	ELA-SR-END-F-20V	251mm-255mm	21mm-22.2mm	130mm	0.66kg
End Piece 25mm	ELA-SR-END-F-25V	251mm-255mm	26mm-27.2mm	130mm	0.71kg

Product code for different lengths: Add 5-digit number to indicating length in mm

Example

Roll: 12mm 9.7m roll product code: ELA-SRC-F-12K-9700S

15mm 1.2m ceramic length strip product code: ELA-SRC-F-15K-01200

Ceramic strips are supplied with 130mm rubber end pieces at each end.

Thickness variation (all strips/pulley) +/- 0.5mm

Ceramic Lagging with thickness >15mm only recommended for pulleys with diameters over 1000mm.

