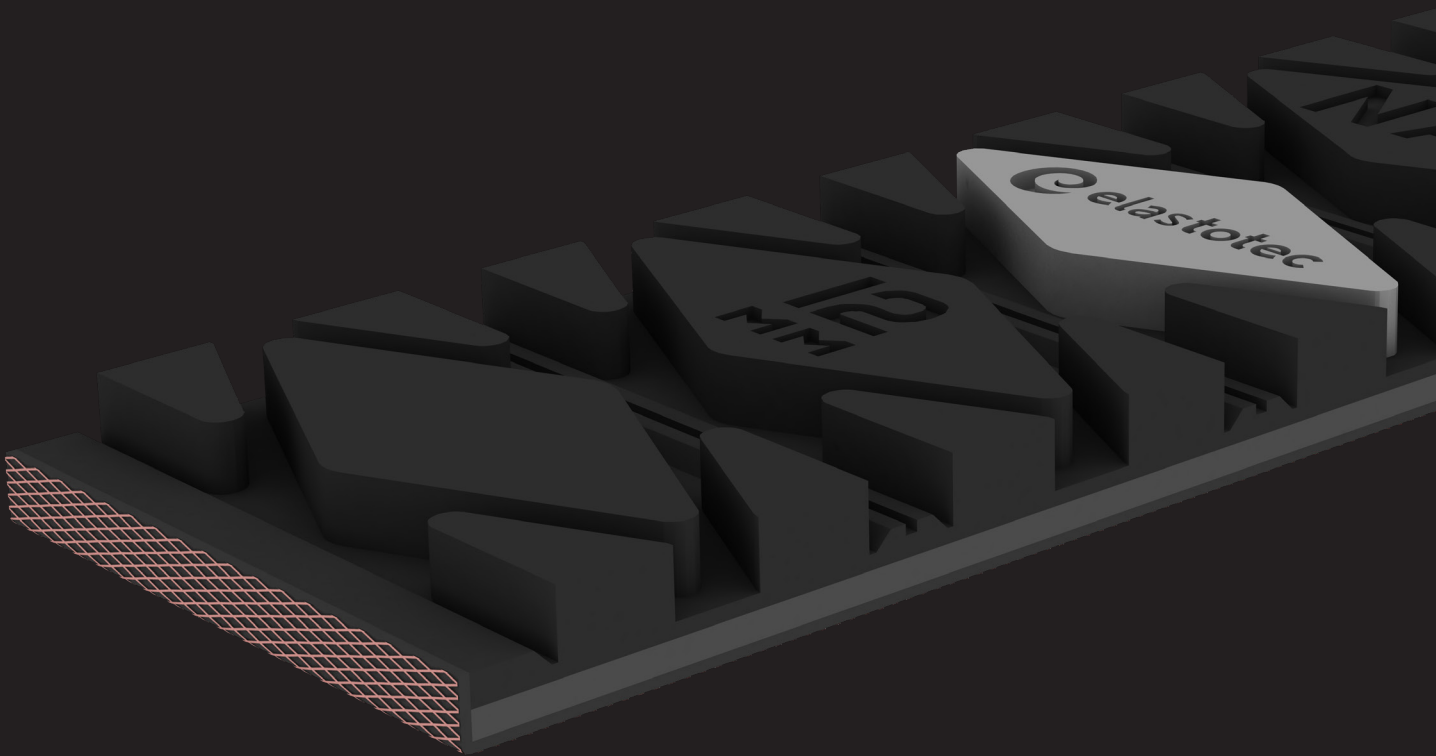




FRAS Oil Resistant Lagging



Engineered to Perform

FRAS Oil Resistant (FOR) Lagging is ideally suited for use on pulleys operating on systems that convey oily materials.

Elastotec FRAS Oil Resistant (FOR) Lagging is engineered to provide long service life by providing resistance to varying types of oils, while still maintaining a level of outdoor ageing and abrasion resistance. The rubber compound also offers Fire Resistant and Anti-Static properties.

Application

Elastotec FRAS Oil Resistant (FOR) Lagging is designed for use in low to medium belt tension applications, and can be applied to conveyor drive, tail, snub, bend, or take-up pulleys. It is used for conveyor system applications in the agricultural and construction processing industries when resistance to oily materials is required.

Key Features and Benefits

-  Longer service life when handling oily materials.
-  Oil resistant rubber compounds that resist degradation in contact with oil.
-  Resists debonding of the lagging from the pulley shell due to oil resistant bonding system.
-  Can be applied using cold bond or hot vulcanised application methods.
-  Ceramic lagging option resists tile loss due to oil resistant bonding system.
-  Lagging is TRG3608 & MSHA certified and has Fire Retardant and Anti-Static properties.
-  Available in a range of thicknesses at 250mm wide.
-  Can be supplied as bulk rolls or custom strips to suit pulley face width.
-  Reduces operating costs by having a balance of oil-resistant properties, combined with low abrasion and anti ageing properties.

Note: For a Cold Bond application, oil resistant lagging needs to be applied with a neoprene based adhesive system such as the Elastotec Cold Bond Adhesive or ContiSecur BFA Adhesive. The use of adhesives based on other polymers must be avoided as these may be prone to deterioration in contact with oil.

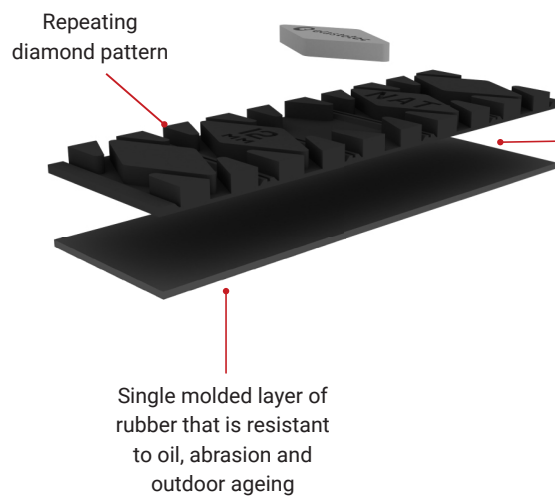


Design

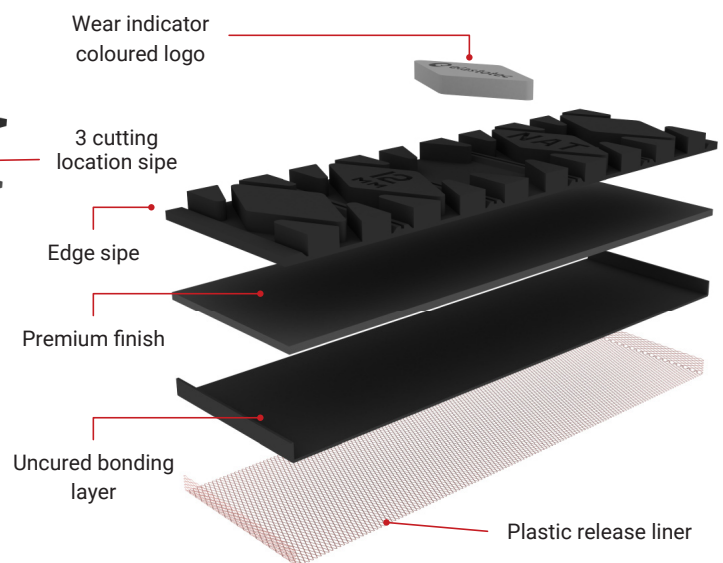
Elastotec Diamond Rubber Lagging is 250mm wide to ensure easy handling and application.

It is supplied in long roll lengths that fit standard sized pallets to eliminate waste and for cost effective transportation and storage. It can be supplied in thicknesses from 8mm to 25mm.

COLD BONDED



HOT VULCANISED



Rubber Specifications

Typical values

	NAT
Tensile Strength (MPa)	16.0
% Elongation	550%
Hardness (shore A)	65+/-5
Abrasion resistance max vol. loss ISO 4649 method A (non-rotating)	170mm ³
Heat ageing (Property change after 70°C 70hs)	Tensile strength +5% Elongation -1% Hardness +3 points
Safe continuous Operating Temperature	-40/+120°C
FRAS TRG3608 & MSHA Certifications	Approved

Ceramic Specifications

Typical values

Aluminium oxide	SBR
Specific gravity g/cm3	18.0
Vickers hardness HV (10)	550%
Flexural strength (Mpa)	65+/-5
Compressive strength (Mpa)	70mm3
Fracture Toughness (Mpa m1/2)	N/A



Chemical Resistance

The Elastotec FOR Pulley Lagging exhibits good general oil resistance to common grain and vegetable based oils. The table below provides details of this oil resistance as well as a comparison with Natural Rubber & Styrene Butadiene Rubber. Elastotec FOR Lagging is not recommended for use with oils where volume swell exceeds 20%.

PRODUCT	CODE	WIDTH	THICKNESS
Corn Oil	10-20	>100	>100
Cotton Seed Oil	10-20	>100	>100
Linseed Oil	5-10	>100	>100
Olive Oil	5-10	>100	>100
Peanut Oil	10-20	>100	>100
Pinene	10-20	>100	>100
Pine Oil	>100	>100	>100
Rapeseed Oil	5-10	>100	>100
Soybean Oil	5-10	>100	>100
Terpineol	>100	>100	>100
Tung Oil	5-10	>100	>100
Terpentine	>100	>100	>100
Vegetable Oil	10-20	>100	>100
White Pine Oil	>100	>100	>100
White Oil	5-10	>100	>100
Wood Oil	5-10	>100	>100
Asphalt	5-10	>100	>100



LAGGING SPECIFICATIONS – FRAS RUBBER LAGGING

COLD BONDED

DIMENSIONS

PRODUCT	CODE	WIDTH	THICKNESS	LENGTH	WEIGHT/lm
FRAS Rubber Lagging 8mm	ELA-RL-DIA-J-8	250mm-252mm	8mm-9mm	95m	2.66kg
FRAS Rubber Lagging 10mm	ELA-RL-DIA-J-10	250mm-252mm	10mm-11mm	80m	2.98kg
FRAS Rubber Lagging 12mm	ELA-RL-DIA-J-12	250mm-252mm	12mm-13mm	65m	4.13kg
FRAS Rubber Lagging 15mm	ELA-RL-DIA-J-15	250mm-252mm	15mm-16mm	50m	4.50kg
FRAS Rubber Lagging 20mm	ELA-RL-DIA-J-20	250mm-252mm	19mm-20mm	40m	5.90kg
FRAS Rubber Lagging 25mm	ELA-RL-DIA-J-25	250mm-252mm	25mm-26mm	30m	7.30kg

LAGGING SPECIFICATIONS – FRAS RUBBER LAGGING

HOT VULCANISED

DIMENSIONS

PRODUCT	CODE	WIDTH	THICKNESS	LENGTH	WEIGHT/lm
FRAS Rubber Lagging 8mm	ELA-RL-DIA-J-8V	252mm-255mm	9.2mm-10.6mm	95m	2.66kg
FRAS Rubber Lagging 10mm	ELA-RL-DIA-J-10V	252mm-255mm	11.2mm-12.6mm	80m	2.98kg
FRAS Rubber Lagging 12mm	ELA-RL-DIA-J-12V	252mm-255mm	13.2mm-14.6mm	65m	4.13kg
FRAS Rubber Lagging 15mm	ELA-RL-DIA-J-15V	252mm-255mm	16.2mm-17.6mm	50m	4.50kg
FRAS Rubber Lagging 20mm	ELA-RL-DIA-J-20V	252mm-255mm	20.2mm-21.6mm	40m	5.90kg
FRAS Rubber Lagging 25mm	ELA-RL-DIA-J-25V	252mm-255mm	26.2mm-27.6mm	9.7m	7.55kg

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

Example: 12mm cold bond 65m roll product code: ELA-RL-DIA-J-12-65000

15mm 1.2m hot vulcanized strip product code: ELA-RL-DIA-J-15V-01200

For strips always allow 100mm extra length over the pulley face width to have 50mm at each end of overhang.

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

Recommendation for lagging thickness suitability for pulley diameters:
8mm, 10mm and 12mm, for pulley diameters 350mm and larger
15mm, for pulley diameters 600mm and larger
20mm, for pulley diameters 1000mm and larger
25mm, for pulley diameters 1400mm and large



LAGGING SPECIFICATIONS – FRAS CERAMIC LAGGING

COLD BONDED

DIMENSIONS DIMPLE TILES

PRODUCT	CODE	WIDTH	THICKNESS	LENGTH	WEIGHT/lm
FRAS Ceramic Lagging 12mm	ELA-SRC38-J-12K	250mm-252mm	12mm-13mm	58.2m	4.69kg
FRAS Ceramic Lagging 15mm	ELA-SRC38-J-15K	250mm-252mm	15mm-16mm	48.5m	4.99kg
FRAS Ceramic Lagging 20mm	ELA-SRC38-J-20K	250mm-252mm	19.5mm-20.5mm	38.8m	5.89kg

DIMENSIONS PLAIN TILES

PRODUCT	CODE	WIDTH	THICKNESS	LENGTH	WEIGHT/lm
FRAS Ceramic Lagging 12mm	ELA-SRC38-J-12P	250mm-252mm	12mm-13mm	58.2m	4.89kg
FRAS Ceramic Lagging 15mm	ELA-SRC38-J-15P	250mm-252mm	15mm-16mm	48.5m	5.19kg
FRAS Ceramic Lagging 20mm	ELA-SRC38-J-20P	250mm-252mm	19.5mm-20.5mm	38.8m	6.09kg

LAGGING SPECIFICATIONS – FRAS CERAMIC LAGGING

HOT VULCANISED

DIMENSIONS DIMPLE TILES

PRODUCT	CODE	WIDTH	THICKNESS	LENGTH	WEIGHT/lm
FRAS Ceramic Lagging 12mm	ELA-SRC38-J-12KV	252mm-255mm	13.2mm-14.6mm	9.7m	5.10kg
FRAS Ceramic Lagging 15mm	ELA-SRC38-J-15KV	252mm-255mm	16.2mm-17.6mm	9.7m	5.75kg
FRAS Ceramic Lagging 20mm	ELA-SRC38-J-20KV	252mm-255mm	20.7mm-22.1mm	9.7m	6.15kg

DIMENSIONS PLAIN TILES

PRODUCT	CODE	WIDTH	THICKNESS	LENGTH	WEIGHT/lm
FRAS Ceramic Lagging 12mm	ELA-SRC38-J-12PV	252mm-255mm	13.2mm-14.6mm	9.7m	5.30kg
FRAS Ceramic Lagging 15mm	ELA-SRC38-J-15PV	252mm-255mm	16.2mm-17.6mm	9.7m	5.95kg
FRAS Ceramic Lagging 20mm	ELA-SRC38-J-20PV	252mm-255mm	20.7mm-22.1mm	9.7m	6.35kg

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

Example

Roll: 12mm 9.7m roll product code: ELA-SRC38-J-12K-09700

15mm 1.2m ceramic length strip product code: ELA-

SRC38-J-15K-01200

For other ceramic options (i.e. 15%, 20% or 80%), please contact your Elastotec representative.

Recommendation for lagging thickness 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 can damage 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.

Shelf Life

DIRECT BOND LAGGING AND WEAR PANELS

-  Stored <25°C 5 years shelf life
-  Inspect and evaluate condition of backing tape after 5 years

COLD BOND LAGGING AND WEAR PANELS

-  Stored <25°C 3 years shelf life
-  Light buffing of bonding surfaces is recommended if over 4 months from production date

HOT VULCANISED LAGGING AND WEAR PANELS

-  Stored <7°C 12 months shelf life
-  Store away from UV and ozone generating equipment
-  Products stored for longer than 12 months require adhesion testing before use

ADHESIVES AND PRIMERS

-  Store in flammable goods cabinet
-  Shelf life Stored <25°C
 - Primers: 2 years
 - Cold Bonding adhesive: 2 years
 - Direct Bond adhesive: 2 years
-  Shelf life Stored <7°C
 - Hot vulcanising adhesive: 12 months

IMPORTANT: For HV Rubber Cement stored at <7°C ensure this is brought to room temperature over a minimum of 24 hours before the drums are opened. This is to prevent condensation of water and contamination of the rubber cement.



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