

OIL RESISTANT LAGGING



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DESCRIPTION

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

Elastotec 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 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.

***Note:** Elastotec Oil Resistant (FOR) Lagging does have Fire Retardant and Anti-Static properties, but if FRAS/MSHA certified lagging is a requirement then the Elastotec FRAS Lagging should be used. Refer to the Elastotec website for more information on FRAS/MSHA certified lagging.

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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 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.



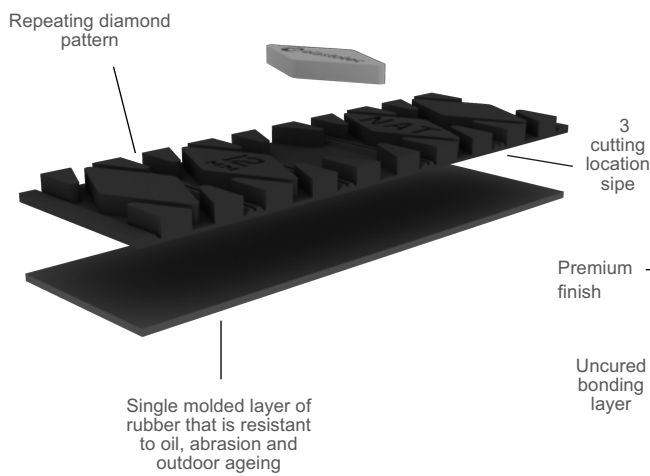
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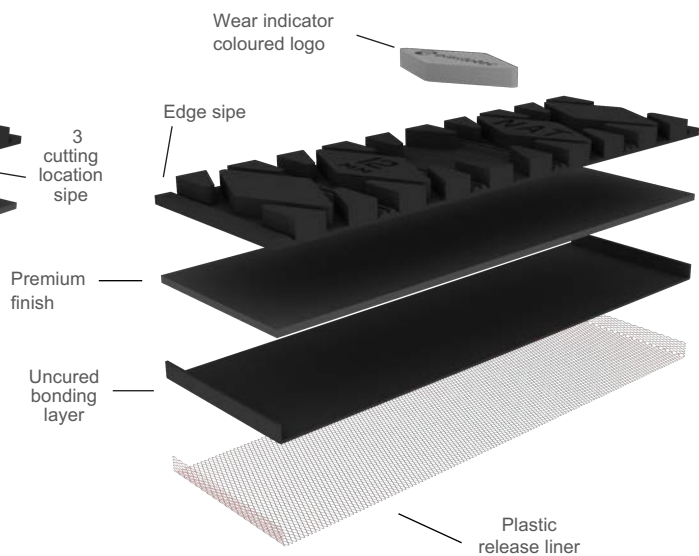
Elastotec Oil Resistant (FOR) Lagging is 250mm wide to ensure easy handling and application.

It is supplied as strips or in long roll lengths that fit on 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



OIL RESISTANT LAGGING

RUBBER SPECIFICATIONS

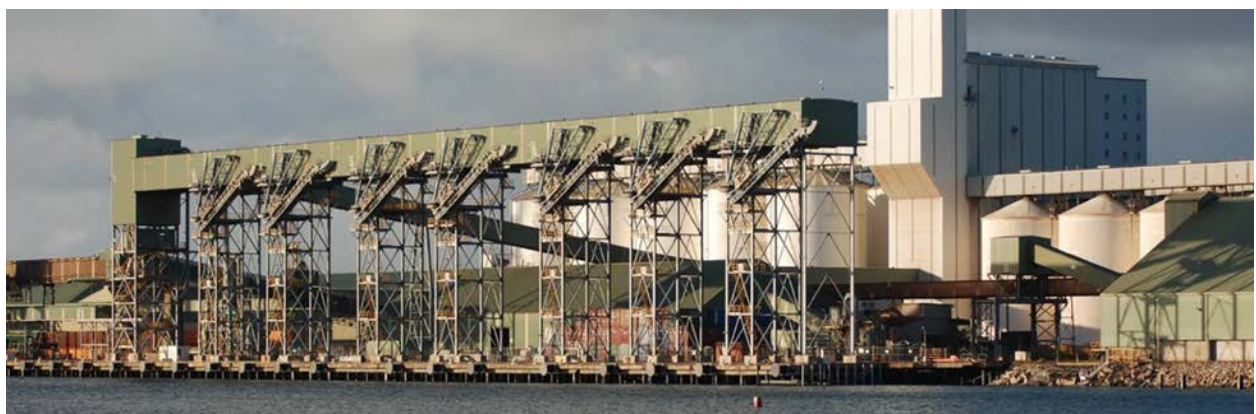
Typical values

Polymer	Polychloroprene
Tensile Strength (MPa)	17.0
% Elongation	500%
Hardness (Shore A)	65 +/-5
Abrasion resistance vol. loss ISO 4649 method A (non-rotating)	140mm ³
Heat ageing (Property change after 70°C 70hs)	Tensile strength +5% Elongation -1% Hardness +3 points
Safe Continuous Operating Temperature	-40/+120°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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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%.

OIL TYPE	OIL RESISTANT Volume Swell%	NATURAL RUBBER Volume Swell%	STYRENE BUTADIENE RUBBER Volume Swell%
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



OIL RESISTANT LAGGING

LAGGING SPECIFICATIONS – RUBBER LAGGING

COLD BONDED

DIMENSIONS

PRODUCT	CODE	WIDTH	THICKNESS	ROLL LENGTH	Kg/lm
Rubber Lagging 8mm	ELA-RL-DIA-FOR-8	249mm-251mm	8mm-9mm	95m	2.66kg
Rubber Lagging 10mm	ELA-RL-DIA-FOR-10	249mm-251mm	10mm-11mm	80m	2.98kg
Rubber Lagging 12mm	ELA-RL-DIA-FOR-12	249mm-251mm	12mm-13mm	65m	4.13kg
Rubber Lagging 15mm	ELA-RL-DIA-FOR-15	249mm-251mm	15mm-16mm	50m	4.50kg
Rubber Lagging 20mm	ELA-RL-DIA-FOR-20	249mm-251mm	19mm-20mm	40m	5.90kg
Rubber Lagging 25mm	ELA-RL-DIA-FOR-25	249mm-251mm	24mm-25mm	30m	7.30kg

HOT VULCANISED

DIMENSIONS

PRODUCT	CODE	WIDTH	THICKNESS	ROLL LENGTH	Kg/lm
Rubber Lagging 8mm	ELA-RL-DIA-FOR-8V	250mm-252mm	8mm-9mm	9.7m	2.95kg
Rubber Lagging 10mm	ELA-RL-DIA-FOR-10V	250mm-252mm	10mm-11mm	9.7m	3.25kg
Rubber Lagging 12mm	ELA-RL-DIA-FOR-12V	250mm-252mm	12mm-13mm	9.7m	4.40kg
Rubber Lagging 15mm	ELA-RL-DIA-FOR-15V	250mm-252mm	15mm-16mm	9.7m	4.80kg
Rubber Lagging 20mm	ELA-RL-DIA-FOR-20V	250mm-252mm	19mm-20mm	9.7m	6.10kg
Rubber Lagging 25mm	ELA-RL-DIA-FOR-25V	250mm-252mm	24mm-25mm	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-FOR-12-65000

15mm 1.2m hot vulcanized strip product code: ELA-RL-DIA-FOR-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.

Rubber Lagging with thickness >15mm only recommended for pulleys with diameters over 400mm.

OIL RESISTANT LAGGING

LAGGING SPECIFICATIONS – MEDIUM SINGLE ROW CERAMIC 38% LAGGING

COLD BONDED

DIMENSIONS DIMPLE TILES

PRODUCT	CODE	WIDTH	THICKNESS	LENGTH	WEIGHT/lm
Ceramic Lagging 12mm	ELA-SRC-FOR-12K	250mm-252mm	12mm-13mm	58.2m	4.69kg
Ceramic Lagging 15mm	ELA-SRC-FOR-15K	250mm-252mm	15mm-16mm	48.5m	4.99kg
Ceramic Lagging 20mm	ELA-SRC-FOR-20K	250mm-252mm	19mm-20mm	38.8m	5.89kg

DIMENSIONS PLAIN TILES

PRODUCT	CODE	WIDTH	THICKNESS	LENGTH	WEIGHT/lm
Ceramic Lagging 12mm	ELA-SRC-FOR-12P	250mm-252mm	12mm-13mm	58.2m	4.89kg
Ceramic Lagging 15mm	ELA-SRC-FOR-15P	250mm-252mm	15mm-16mm	48.5m	5.19kg
Ceramic Lagging 20mm	ELA-SRC-FOR-20P	250mm-252mm	19mm-20mm	38.8m	6.09kg

HOT VULCANISED

DIMENSIONS DIMPLE TILES

PRODUCT	CODE	WIDTH	THICKNESS	LENGTH	WEIGHT/lm
Ceramic Lagging 12mm	ELA-SRC-FOR-12KV	251mm-255mm	13mm-14.2mm	9.7m	5.10kg
Ceramic Lagging 15mm	ELA-SRC-FOR-15KV	251mm-255mm	16mm-17.2mm	9.7m	5.75kg
Ceramic Lagging 20mm	ELA-SRC-FOR-20KV	251mm-255mm	21mm-22.2mm	9.7m	6.15kg

DIMENSIONS PLAIN TILES

PRODUCT	CODE	WIDTH	THICKNESS	LENGTH	WEIGHT/lm
Ceramic Lagging 12mm	ELA-SRC-FOR-12PV	251mm-255mm	13mm-14.2mm	9.7m	5.30kg
Ceramic Lagging 15mm	ELA-SRC-FOR-15PV	251mm-255mm	16mm-17.2mm	9.7m	5.95kg
Ceramic Lagging 20mm	ELA-SRC-FOR-20PV	251mm-255mm	21mm-22.2mm	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-SRC-FOR-12K-9700S
 15mm 1.2m ceramic length strip product code: ELA-SRC-FOR-15K-01200

Thickness variation (all strips/pulley) +/-0.5mm
 Ceramic Lagging with thickness >15mm only
 recommended for pulleys with
 diameters over 1000mm.

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

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STORAGE

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

COLD BONDING 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

<7°C and away from UV and ozone generating equipment 12 months. Products stored for longer than 6 months will need to be re-tested for adhesion before being used, and the recommended shelf life is 12 months.

ADHESIVES AND PRIMERS

Store in flammable goods cabinet

Stored <25°C


Shelf life:


- Primers: 2 years
- Cold bonding adhesive: 2 years
- Hot vulcanising adhesive: 12 months
- Direct bond adhesive: 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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