



GreenStuf® ECO WRAP

Autex GreenStuf® is a range of quality 100% polyester thermal insulation products. GreenStuf® products are thermally bonded bulk-fibre insulation materials manufactured from polyester fibres.

GreenStuf® ECO WRAP is a non-irritant thermally efficient insulation wrap designed for insulating electric hot water cylinders.

GreenStuf® ECO WRAP is supplied ready to fit, and has been tested to a thermal performance rating of R1.3.

Features and Benefits

- The addition of a GreenStuf® ECO WRAP will reduce heat loss through electric hot water cylinders so hot water stays hotter for longer. Thermally efficient water heating saves energy costs and the Energy Efficiency and Conservation Authority (EECA) estimate that wrapping an older cylinder can save in excess of \$100 per year in water heating costs.
- GreenStuf® products are completely safe and user-friendly so no protective clothing is required to handle or install the product.
- GreenStuf® ECO WRAPS are made from a thermally efficient polyester blanket laminated to a foil jacket to provide a durable and effective insulation wrap for hot water cylinders and hot water pipes.
- GreenStuf® polyester is not carcinogenic and does not contain any added chemicals such as formaldehyde based binders. GreenStuf® polyester fibres are not of a respirable size and will never become a potential airborne pollutant providing safer indoor air quality.
- GreenStuf® will not slump or settle over time (50+ year durability rating) and is not affected by moisture, mould or mildew.
- GreenStuf® is manufactured using a minimum of 45% previously recycled polyester fibre (from PET plastic) and is reusable and recyclable at end of life – supporting the philosophies of Environmentally Sustainable Design (ESD).



Applications

GreenStuf® ECO WRAPS are designed to be retro-fitted to older domestic hot water cylinders. However if heat can be felt on the outside of an electric hot water cylinder it is losing energy and benefit can be gained from installing an ECO WRAP.

GreenStuf® ECO WRAP can also be used as a thermal pipe wrap for insulating hot water pipes. Pipes wrapped in ECO WRAP will hold heat longer and reduce heat loss.

GreenStuf® ECO WRAPS should be installed in accordance with the manufacturers instructions (included in each pack) and NZS4246 Energy Efficiency – Installing Insulation in Residential Buildings.

PRODUCT (R Value)	NOMINAL THICKNESS (mm)	PACK SIZE
ECO WRAP (R1.3)	50mm	1200mm wide x 3.0m long (3.60m ²)

Pack Contents

GreenStuf® ECO WRAPS come complete and ready for simple installation. Each pack contains one Eco Wrap hot water cylinder wrap (3 meters x 1200mm wide + 150mm foil overlap), one roll of foil tape and Installation Instructions for fitting to electric cylinders and hot water pipes.

Early Fire Hazard Test Results

GreenStuf® is a self-extinguishing product and meets all NZ Building Code requirements as tested under AS1530.3

Ignitability Index (0-20)	0
Heat Evolved Index (0-10)	0
Spread of Flame Index (0-10)	0
Smoke Developed Index (0-10)	3

Tested 15 April 1998, APL Report 98055

Environmental:

There are no known hazards with the use or handling of Autex polyester insulation materials. GreenStuf® is non-toxic, non-allergenic, and non-irritant.

GreenStuf® contains a minimum of 45% previously recycled fibre (from PET plastic) and is completely recyclable at end of life. GreenStuf® is manufactured under Autex's Zero Waste Policy where manufacturing waste is recycled or re-processed into other products.

GreenStuf® polyester fibres are not of a respirable size and will never become a potential airborne health risk providing for safer indoor air quality.

Indoor Environment Quality (IEQ)/ VOC Emissions:

Autex polyester well exceeds the leading world standards established by 'Good Environmental Choice Australia' (GECA) and The GreenGuard Environmental Institute.

GreenGuard VOC standards are the recommended maximum levels established by the US National Toxicology Program (NTP), the International Association for Research on Cancer (IARC) and the World Health Organisation (WHO).

Autex GreenStuf® polyester has been tested by Cetec Pty Ltd (Report: RCV080408) for chemical emission as follows:

VOC concentration:	0.01 mg/m³ (7days)
GECA/ GreenGuard Limit:	0.25 mg/m³ (7days)

Durability:

Autex Greenstuf® is manufactured in NZ under strict ISO 9001 quality control systems. GreenStuf® will not slump, sag or reduce its performance over time. This ensures full performance is maintained (50+ year BRANZ Durability Rating).

Autex provides a 50 year durability warranty against product failure in normal use situations. For more information please contact your Autex Representative.

Corrosiveness:

When tested in accordance with NZS 4222, GreenStuf® insulation is classified as non-corrosive. GreenStuf® polyester is pH7.8 (where pH7.0 is neutral).

Moisture:

GreenStuf® is not affected by moisture. Exposure to an atmosphere of 50°C at 90% relative humidity for four days showed moisture absorption by weight of less than 0.03%. Should GreenStuf® ever get wet, full thermal performance will be restored on drying out.

Thermal Performance

GreenStuf® ECO WRAP has been laboratory tested to ASTM C518-04 and is guaranteed by Autex to meet the stated thermal performance rating.

Declared Material Thermal Resistance:

1.3 m² K/W at 15°C (R1.3)

Installation:

Autex Insulation recommends that all thermal and acoustic insulation be installed in accordance with the manufacturers instructions (included in each GreenStuf® ECO WRAP pack) and NZS 4246 Energy Efficiency - Installing Insulation in Residential Buildings.

MSDS:

Material Safety Data Sheets (MSDS) are available on request from your Autex Representative or by phoning Autex Customer Services freephone 0800 428 839.

General:

GreenStuf® is manufactured in NZ by Autex Insulation, a division of Autex Industries Limited, an ISO 9001 certified company. Autex retains the right to change products and specifications without prior notice. If a specification is critical to end use situation please discuss your requirements with your Autex Representative.

GreenStuf® is a registered trademark of Autex Industries. "Healthwise" and "Proudly made in NZ" logos are registered trademarks of Autex Industries.

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