

DEVERELL ASSOCIATES
WELLINGTON

REC. 27 JUN1990

ANSD.....

No. 425 ALUMINIUM FOIL TAPE

DESCRIPTION

A dead soft aluminium foil combined with a special transparent synthetic acrylic adhesive makes this the best general purpose foil product available. No. 425 has an approved Class I Surface Spread of Flame Classification based on the Building Research Association of New Zealand Fire Test Report No. F150. Can be used indoors or out for long term applications.

CONSTRUCTION

Backing: Dead soft aluminium
Adhesive: Special transparent synthetic
Colour: Silver (shiny)
Roll Length: 55 metres
Maximum Width: 965mm

AVERAGE PHYSICAL PROPERTIES

Adhesive to Steel: 1850 gm/25mm width (71 N/100mm)
Tensile Strength: 13.5 kg/25mm width (525 N/100mm)
Backing Thickness: .08mm
Tape Thickness: .13mm
Elongation at Break: 5%
Water Vapour
Transmission Rate: 1.55 g/m².24h)
Weight: .0065 kg/m/24mm

APPLICATION CONDITIONS

Best results attained when applied to a clean dry surface above 0°C.

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3M NEW ZEALAND LTD

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SCOTCH Adhesive Taping Systems
A Tape for every Industry

3M

GENERAL INFORMATION

1. Reflective backing provides excellent radiation for both heat and light.
2. The very low moisture vapour transmission rate makes No. 425 a good sealant.
3. The special permanent adhesive combined with the rugged, durable backing gives ideal properties for long serviceable life both indoors and out.
4. Good candidate as a maskant in electroplating of aluminium since it will not contaminate the bath.
5. Approved by Civil Aviation Division of New Zealand Ministry of Transport, Approval No. AWB553.
6. Performance range from -54°C to 149°C continuously. Higher temperatures for shorter periods.
7. Flame resistant - Test Report No. F150:

EARLY FIRE HAZARD PROPERTIES OF MATERIALSREPORT ON:

The Early Fire Hazard Properties of Scotch Brand No. 425 Aluminium Foil Tape.

FOR:

3M New Zealand Ltd., P.O. Box 33-246, Auckland. 9.

DESCRIPTION OF TEST MATERIAL:

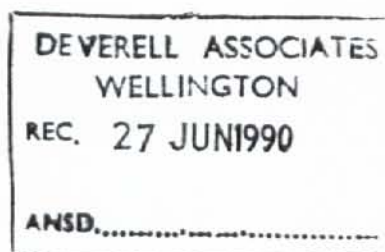
Six samples were prepared of Scotch Brand No. 425 Aluminium Foil Tape, 48mm wide and of weight 242g/m², applied in nine vertical strips to asbestos cement board. The product was described in the sponsors letter and enclosures dated 26/7/76.

DESCRIPTION OF TEST EQUIPMENT:

The equipment used is the Early Fire Hazard apparatus as set out in Australian Standard 1530, Part 3 - 1976.

PROCEDURE

The test was carried out on 9/8/76 at BRANZ Laboratories, Judgeford. The test procedure conformed to AS1530, 3 - 1976 (Australian Standard Methods for Fire Tests on building materials and structures, Part 3 - Tests for Early Fire Hazard Properties of Materials). For the test each specimen was clamped to the specimen holder in three places.



RESULTS:

The material under test yielded the following indices:

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

Building Research Association of New Zealand
23rd August 1976

POSSIBLE USES:

1. General sealant indoors or out.
2. Repair tears on truck trailers and aircraft.
3. Moisture barrier - e.g. around windows in aircraft, buses and in appliances.
4. Electroplating of aluminium.
5. General purpose heat reflector.
6. Mechanically holds wires and conduit to appliance walls. Acts as good heat source for defrosting, as well as evens out cold temperature.
7. Splicing of thin gauge foils.
8. General purpose holding, patching, sealing applications.

FEATURES

Aluminium foil backing

Synthetic Adhesive

ADVANTAGES

Long term protection

Heat reflective

Non-flammable

Long aging

BENEFITS

Protects parts from water, dust or chemical damage.

Protects parts from heat.

Will not aid combustion

Reduces need for replacing.

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