



# Safety-Walk™ Cushion Matting 5100

## (formerly known as 3M Safe-tigue™ Matting)

### Technical Data

**TD 424 – Issue 4 – Date: July 2003**  
**Supersedes: March 2001**  
**DA. Page 1 / 1**

**Description:**

3M™ Safety-Walk™ Cushion Matting 5100 is a durable, flexible vinyl mat with an open construction for easy cleaning, comfort and safety.

It's construction allows easy traffic of typical carts over the surface. The vinyl composition offers excellent resistance to a variety of chemicals, greases and detergents found in industrial or food service environments.

**Product Positioning:**

For use in food service or industrial applications to provide antislip and anti-fatigue properties.

This product has been approved for use in federally inspected meat and poultry plants by the United State Department of Agriculture (USDA).

**Limitations of Use:**

The mat is not recommended as an entryway walk-off mat.

**Special Features:**

- Antislip and comfortable
- Grease and oil resistant
- Allows easy water drainage
- Excellent chemical resistance
- Allows cart traffic

**Colors:**

- Quarry tile red
- Black

**Sizes:**

*Pre-cut Mats:*

- 0.91 x 1.52 m
- 0.91 x 3.05 m

*Rolls:*

- 0.91 x 6.1 m

**Packaging and Marking:**

- *Pre-cut mats:* 1 mat per case.
- *Rolls:* 1 roll per case.
- Each case is marked with product name, size, color, manufacturer's trade name.

**Installation & Cleaning Instructions:**

Detailed cleaning instructions are included in each case.

**Accessories:**

- 3M Matting Edging - High Profile
- 3M Matting Accessory Adhesive

**Product disposal:**

Post consumer waste can be disposed of in appropriate containers or/and be incinerated.

The European directive waste disposal code is 20-01-39 for plastic material.

Refer to your local waste handling procedure for potential recycling.

**Product Requirements:**

Property Test method	Value
Thickness ① ASTM D418-68 Sect 30-35	12.0 mm
Weight ①	6.9 kg/cm <sup>2</sup>
Microbiological properties : ASTM G-21-96	Inhibiting to fungal growth
Flammability: • NF P92507 (FR): • Bureau Veritas (FR): • V.K.F (CH): • Doc FF.1.70 (USA): • ASTM E 648 (USA):	M3 Class 2 5 - 2 Passes > 1.0 watt / cm <sup>2</sup>
Electrical properties: • Dielectrical strength ASTM D -149 • Volume Resistivity ASTM D-257 • Insulation Resistance ASTM D-257	9.4 KV  6.2 x 10 <sup>11</sup> ohms/cm 2.4 x 10 <sup>11</sup> ohms
Environmental resistance: ASTM D-746	- 29°C to 60°C
Crush recovery from static load (0.7kg/cm <sup>2</sup> for 24hrs)	99% recovery
Coefficient of friction: • ASTM D-1894 Dry leather Dry rubber Wet leather Wet rubber Oil leather Oil rubber • B.I.A (GE): (ZH 1/571 & DIN 51130)	1.20 1.13 1.16 1.14 1.14 1.02 R10, V10

① Typical average values

**Resistance to chemicals:**

(All tests 30 days at 22° C)

Solution	Value ②
Acid chrome plating solution	Excellent
Acid organic (pickle juice)	Poor
Ammonium persulfate	Excellent
Brake fluid	Excellent
Chlorinated solvents	Poor
Degreaser solutions ③	Excellent
Dishwashing soaps	Excellent
Electroless tin solution	Excellent
Ethyl alcohol	Excellent
Ethylene glycol	Excellent
Ferric chloride	Excellent
Gasoline	Excellent
Glycerine	Excellent
Hexane	Excellent
Hydraulic fluid	Poor
Hydrochloric acid 10%	Excellent
Isopropyl alcohol	Poor
Ketones	Poor
Lithographic fluid (3M-K-11)	Excellent
Methyl alcohol	Excellent
Mineral spirits	Excellent
Nickel sulfate	Excellent
Oil, cutting ③	Poor
Oil, lubricating ④	Excellent
Oil, peanut	Excellent
Oil, vegetable	Excellent
Soap solution 1% Tide	Excellent
Sodium hydroxide	Excellent
Sodium tri-phosphate	Excellent
Water	Excellent
Water 10% salt	Excellent
Water chlorinated	Excellent

② Excellent = less than 3% dimension change and less than 5% hardness change.

Poor = more than 3% dimension change and more than 5% hardness change. Not recommended for use in presence of the chemical.

③ Chlorinated

④ Some oils may affect the product. A small trial is recommended before installing the product.

**Origin of product:** made in USA, in an ISO 9002 certified plant.

**Source of supply:** 3M France

