



# Tontine Filter Media

## Product Description

Tontine Fibres offer a wide variety of filter media products manufactured from thermally bonded polyester fibre. The filter media have been designed for many applications, including air conditioners, exhausts, extended configurations and pre-filters. The products in the standard Tontine Filter Media range are white in colour. Tontine Filter Media are classified from G3 to F5 according to Australian Standard AS1324.1. More details are provided on the products, their classification and applications below. For more information on material safety data please refer to the Tontine Bonded Polyester Products MSDS.

## Filter Media Classifications

It is important to understand the performance criteria for each classification of filter media. Some definitions used to describe classifications in this datasheet are as follows:

- Arrestance (  $A_m$  ): The mass percentage of test dust removed by a filter from an airstream, measured on a gravimetric basis.
- Efficiency (  $E_m$  ): The percentage of submicron aerosols removed by a filter from an airstream, measured on a photometric basis.
- Final Resistance: Air resistance of a dust laden filter at the end of a test run.
- Test Dust #1: An aerosol of specified dye solution with particle diameters in the 0.2 – 3 micron range.
- Test Dust #4: A blend of specified fine dusts and cotton lint with particle diameters in the 1 – 20 micron range.
- Washable: Designed to be reusable after a gentle washing cycle. However it must be recognised that even with the gentlest washing and detergents, the performance will be reduced with each wash. It is recommended that the media be replaced as soon as any signs of physical change are identified.

## Filter Performance Rating of Tested Tontine Filter Media ( AS1324.1 )

Performance Rating	Average Arrestance % ( Test Dust #4 )	Average Efficiency % ( Test Dust #1 )	Maximum Final Resistance ( Pa )	Tontine Filter Media Products
ARRESTANCE FILTERS ( COARSE G FILTERS )				
<b>G3</b>	$80 \leq A_m \leq 90$	N/A	250	<b>TFM 250D, TFM 275</b>
<b>G4</b>	$90 \leq A_m$	N/A	250	<b>TFM 390D, TFM 400</b>
EFFICIENCY FILTERS ( FINE F FILTERS )				
<b>F5</b>	N/A	$40 \leq E_m \leq 60$	450	<b>EFM 350T</b>

Note that AS1324.1 does not include F4 as a current filter classification. It is equivalent to the G4 rating.

## G3 Rated Filter Media ( TFM 250D and TFM 275 )

Suitable for general air conditioning or pre-filtration for high grade filters.

### Physical Characteristics

	TFM 250D	TFM 275
<b>ROLL WIDTH</b>	2.1 m	2.1 m
<b>ROLL LENGTH</b>	30 m	20 m
<b>NOMINAL THICKNESS</b>	18 mm	20 mm
<b>MAXIMUM SERVICE TEMPERATURE</b>	120°C	120°C
<b>WASHABILITY</b>	Disposable	Washable
<b>CLEAN AIR SIDE BRANDING</b>	TFM-250D G3	TFM-275 G3

### Technical Data

	TFM 250	TFM 275
<b>RATED AIR VELOCITY</b>	1.78 m/s	1.78 m/s
<b>CLEAN AIR RESISTANCE</b>	50 Pa	49 Pa
<b>FINAL AIR RESISTANCE</b>	125 Pa	250 Pa
<b>DUST HOLDING CAPACITY</b>	217 g/m <sup>2</sup>	435 g/m <sup>2</sup>
<b>AVERAGE ARRESTANCE ( TEST DUST #4 )</b>	82%	85%



# Tontine Filter Media

## G4 Rated Filter Media ( TFM 390D and TFM 400 )

Suitable for high grade air conditioning and ventilation applications, for use in extended area filters, or for minimising the growth of submicron particles in a conditioned environment.

### Physical Characteristics

	TFM 390D	TFM 400
ROLL WIDTH	2.1 m	2.1 m
ROLL LENGTH	20 m	20 m
NOMINAL THICKNESS	20 mm	20 mm
MAXIMUM SERVICE TEMPERATURE	120°C	120°C
WASHABILITY	Disposable	Washable
CLEAN AIR SIDE BRANDING	TFM-390D G4	TFM-400 G4

### Technical Data

	TFM 390D	TFM 400
RATED AIR VELOCITY	1.00 m/s	1.00 m/s
CLEAN AIR RESISTANCE	50 Pa	45 Pa
FINAL AIR RESISTANCE	150 Pa	200 Pa
DUST HOLDING CAPACITY	254 g/m <sup>2</sup>	360 g/m <sup>2</sup>
AVERAGE ARRESTANCE ( TEST DUST #4 )	90%	92%
INITIAL EFFICIENCY ( TEST DUST #1 )	21%	N/A
AVERAGE EFFICIENCY ( TEST DUST #1 )	31%	N/A

## F5 Rated Filter Media ( EFM 350T )

Designed for the removal of submicron particles and to provide long service life in extended area filter configurations

### Physical Characteristics

	EFM 350T
ROLL WIDTH	2.1 m
ROLL LENGTH	30 m
NOMINAL THICKNESS	16 mm
MAXIMUM SERVICE TEMPERATURE	100°C
WASHABILITY	Disposable
CLEAN AIR SIDE BRANDING	N/A

### Technical Data

	EFM 350T
RATED AIR VELOCITY	0.5 m/s
CLEAN AIR RESISTANCE	22 Pa
FINAL AIR RESISTANCE	250 Pa
DUST HOLDING CAPACITY	345 g/m <sup>2</sup>
AVERAGE ARRESTANCE ( TEST DUST #4 )	97%
INITIAL EFFICIENCY ( TEST DUST #1 )	20%
AVERAGE EFFICIENCY ( TEST DUST #1 )	40%

## Fire Resistance

When tested in accordance with AS1530.3 (1999), "Early Fire Hazard Properties of Materials", exhibits the following characteristics:

Ignitability Index	0
Spread of Flame Index	0
Heat Evolved	0
Smoke Developed Index	0 - 3

FOR FURTHER INFORMATION OR AN MSDS CALL 1300 467 852 OR E-MAIL [customercare@tontineinsulation.com.au](mailto:customercare@tontineinsulation.com.au)

Testing has been carried out on flat pad media in a NATA certified laboratory under controlled conditions in accordance with AS1324.2. Care should be taken quoting results in other configurations. Variations in air to media ratio and configuration may give significantly different results. As these products are subject to constant research and development, we reserve the right to update the contents without notice. Recommendations regarding the use of products are to be taken as a guide only, and the purchaser should independently determine the suitability of a product for the intended application.

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