

Fabriano Filter Media S.p.A.

Technical Data Sheet

Revision #

1

Date

22/08/2002

Media Grade

EACH MEDIA GRADE, IF REQUESTED, IS AVAILABLE TO BE SUPPLIED IN 1° CLASS FIRE REACTION (IN ACCORDANCE TO THE UNI 9177)	Type	ULPA H.Y.				
	Code	NFULPU16				
	Description Test	TEST METHOD	UNITS	MIN	STD	MAX
		CONDITIONS 23 ± 2 °C - 50% ± 5 U.R.				
	Basis Weight	TAPPI T410	gr/m ²	74,0	78,0	82,0
			lb/3000ft ²	45,5	47,9	50,4
	Basis Weight Prefilter Layer	TAPPI T410	gr/m ²			
			lb/3000ft ²			
	Caliper	Internal Method	mm	0,420	0,460	0,500
			mils	16,5	18,1	19,7
	Bulk	TAPPI T500	cm ³ /gr	5,676	5,897	6,098
	Efficiency	@ 0,3μ 5.32 cm/sec	%			
	Pressure Drop	@ 0,3μ 5.32 cm/sec	mm H2O		44,9	50,0
			Pa		440	490
	MPPS Efficiency	EN1822 @ 1,7 cm/sec	%	99,99995		
	Pressure Drop	EN1822 @ 1,7 cm/sec	mm H2O			19
			Pa			186
	MPPS Efficiency	EN1822 @ 3,2 cm/sec	%			
	Pressure Drop	EN1822 @ 3,2 cm/sec	mm H2O			
			Pa			
	Initial Dry Pressure Drop	Internal Method	mm H2O			
			Pa			
	Final Wet Pressure Drop	Internal Method 50 mm H2O 30''	mm H2O			
			Pa			
	Frazier Permeability	TAPPI T251	cfm			
	Tensile MD	TAPPI T404	kN/m	0,90	1,2	
			gr/inch.	2.300	3.067	
			Kg/15 mm	1,38	1,84	
	Tensile MD	Internal Method 10'	kN/m			
			gr/inch.			
			Kg/15 mm			
	Tensile MD After Fold	Internal Method	kN/m	0,60	0,80	
			gr/inch.	1.533,3	2.044,4	
			Kg/15 mm	0,92	1,22	
	Tensile MD After Fold	Internal Method 10'	kN/m			
			gr/inch.			
			Kg/15 mm			
	Burst	Internal Method	kPa*m ² /gr	1,0		
	Burst Wet	Internal Method 10'	kPa*m ² /gr			
	Elongation MD	TAPPI T404	%	1,0	1,2	
	Stiffness MD	TAPPI T543	mg	900	1100	
	Water Repellency	Mil: Std 282 (Q-101)	mm	400	700	
			inches	15,7	27,6	
	Surface Tension	TAPPI T557	Kit #			
	Loss of Ignition	t 30' - T 520 °C	%		8,0	10,0
	Brightness	TAPPI T452	%	97,0	98,0	
	Yeld	Internal Method (%)	m ² /Kg	13,5	12,8	12,2
			ft ² /lb	66,0	62,6	59,6



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EACH MEDIA GRADE, IF REQUESTED, IS AVAILABLE TO BE SUPPLIED IN 1° CLASS FIRE REACTION (IN ACCORDANCE TO THE UNI 9177)	Type	ULPA H.Y.				
	Code	NFULPU15				
	Description Test	TEST METHOD	UNITS	MIN	STD	MAX
		CONDITIONS 23 ± 2 °C - 50% ± 5 U.R.				
	Basis Weight	TAPPI T410	gr/m ²	72,0	75,0	78,0
			lb/3000ft ²	44,2	46,1	47,9
	Basis Weight Prefilter Layer	TAPPI T410	gr/m ²			
			lb/3000ft ²			
	Caliper	Internal Method	mm	0,400	0,440	0,480
			mils	15,7	17,3	18,9
	Bulk	TAPPI T500	cm ³ /gr	5,556	5,867	6,154
	Efficiency	@ 0,3μ 5.32 cm/sec	%	99,997	99,999	
	Pressure Drop	@ 0,3μ 5.32 cm/sec	mm H2O		39,8	42,0
			Pa		390	412
	MPPS Efficiency	EN1822 @ 1,7 cm/sec	%	99,9995		
	Pressure Drop	EN1822 @ 1,7 cm/sec	mm H2O			16
			Pa			157
	MPPS Efficiency	EN1822 @ 3,2 cm/sec	%			
	Pressure Drop	EN1822 @ 3,2 cm/sec	mm H2O			
			Pa			
	Initial Dry Pressure Drop	Internal Method	mm H2O			
			Pa			
	Final Wet Pressure Drop	Internal Method 50 mm H2O 30''	mm H2O			
			Pa			
	Frazier Permeability	TAPPI T251	cfm			
	Tensile MD	TAPPI T404	kN/m	0,90	1,2	
			gr/inch.	2,300	3,067	
			Kg/15 mm	1,38	1,84	
	Tensile MD	Internal Method 10'	kN/m			
			gr/inch.			
			Kg/15 mm			
	Tensile MD After Fold	Internal Method	kN/m	0,55	0,80	
			gr/inch.	1,406	2,044	
			Kg/15 mm	0,84	1,22	
	Tensile MD After Fold	Internal Method 10'	kN/m			
			gr/inch.			
			Kg/15 mm			
	Burst	Internal Method	kPa*m ² /gr	1,0		
	Burst Wet	Internal Method 10'	kPa*m ² /gr			
	Elongation MD	TAPPI T404	%	1,0	1,2	
	Stiffness MD	TAPPI T543	mg	900	1000	
	Water Repellency	Mil: Std 282 (Q-101)	mm	400	700	
			inches	15,7	27,6	
	Surface Tension	TAPPI T557	Kit #			
	Loss of Ignition	t 30' - T 520 °C	%		8,0	10,0
	Brightness	TAPPI T452	%	96,0	98,0	
	Yeld	Internal Method (%)	m ² /Kg	13,9	13,3	12,8
			ft ² /lb	67,8	65,1	62,6



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Media Grade

EACH MEDIA GRADE, IF REQUESTED, IS AVAILABLE TO BE SUPPLIED IN 1° CLASS FIRE REACTION (IN ACCORDANCE TO THE UNI 9177)	Type	HEPA H.Y.				
	Code	NFHEPH14				
	Description Test	TEST METHOD	UNITS	MIN	STD	MAX
		CONDITIONS 23 ± 2 °C - 50% ± 5 U.R.				
	Basis Weight	TAPPI T410	gr/m ²	72,0	75,0	78,0
			lb/3000ft ²	44,2	46,1	47,9
	Basis Weight Prefilter Layer	TAPPI T410	gr/m ²			
			lb/3000ft ²			
	Caliper	Internal Method	mm	0,400	0,440	0,480
			mils	15,7	17,3	18,9
	Bulk	TAPPI T500	cm ³ /gr	5,556	5,867	6,154
	Efficiency	@ 0,3μ 5.32 cm/sec	%	99,990		
	Pressure Drop	@ 0,3μ 5.32 cm/sec	mm H2O		32,5	34,5
			Pa		319	338
	MPPS Efficiency	EN1822 @ 1,7 cm/sec	%	99,995		
	Pressure Drop	EN1822 @ 1,7 cm/sec	mm H2O			13,0
			Pa			127
	MPPS Efficiency	EN1822 @ 3,2 cm/sec	%			
	Pressure Drop	EN1822 @ 3,2 cm/sec	mm H2O			
			Pa			
	Initial Dry Pressure Drop	Internal Method	mm H2O			
			Pa			
	Final Wet Pressure Drop	Internal Method 50 mm H2O 30''	mm H2O			
			Pa			
	Frazier Permeability	TAPPI T251	cfm			
	Tensile MD	TAPPI T404	kN/m	0,80	1,2	
			gr/inch.	2,044	3,067	
			Kg/15 mm	1,22	1,84	
	Tensile MD	Internal Method 10'	kN/m			
			gr/inch.			
			Kg/15 mm			
	Tensile MD After Fold	Internal Method	kN/m	0,57	0,80	
			gr/inch.	1,457	2,044	
			Kg/15 mm	0,87	1,22	
	Tensile MD After Fold	Internal Method 10'	kN/m			
			gr/inch.			
			Kg/15 mm			
	Burst	Internal Method	kPa*m ² /gr	1,0		
	Burst Wet	Internal Method 10'	kPa*m ² /gr			
	Elongation MD	TAPPI T404	%	1,0	1,2	
	Stiffness MD	TAPPI T543	mg	900	1000	
	Water Repellency	Mil: Std 282 (Q-101)	mm	400	700	
			inches	15,7	27,6	
	Surface Tension	TAPPI T557	Kit #			
	Loss of Ignition	t 30' - T 520 °C	%		8,0	10,0
	Brightness	TAPPI T452	%	96,0	98,0	
	Yeld	Internal Method (%)	m ² /Kg	13,9	13,3	12,8
			ft ² /lb	67,8	65,1	62,6



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EACH MEDIA GRADE, IF REQUESTED, IS AVAILABLE TO BE SUPPLIED IN 1° CLASS FIRE REACTION (IN ACCORDANCE TO THE UNI 9177)	Type	HEPA H.Y.				
	Code	NFHEPH13				
	Description Test	TEST METHOD	UNITS	MIN	STD	MAX
		CONDITIONS 23 ± 2 °C - 50% ± 5 U.R.				
	Basis Weight	TAPPI T410	gr/m ²	70,0	72,0	74,0
			lb/3000ft ²	43,0	44,2	45,5
	Basis Weight Prefilter Layer	TAPPI T410	gr/m ²			
			lb/3000ft ²			
	Caliper	Internal Method	mm	0,380	0,410	0,440
			mils	15,0	16,1	17,3
	Bulk	TAPPI T500	cm ³ /gr	5,429	5,694	5,946
	Efficiency	@ 0,3μ 5.32 cm/sec	%	99,970		
	Pressure Drop	@ 0,3μ 5.32 cm/sec	mm H2O		28,5	31,5
			Pa		279	309
	MPPS Efficiency	EN1822 @ 1,7 cm/sec	%	99,97		
	Pressure Drop	EN1822 @ 1,7 cm/sec	mm H2O			11,0
			Pa			108
	MPPS Efficiency	EN1822 @ 3,2 cm/sec	%	99,95		
	Pressure Drop	EN1822 @ 3,2 cm/sec	mm H2O			21,0
			Pa			206
	Initial Dry Pressure Drop	Internal Method	mm H2O			
			Pa			
	Final Wet Pressure Drop	Internal Method 50 mm H2O 30''	mm H2O			
			Pa			
	Frazier Permeability	TAPPI T251	cfm			
	Tensile MD	TAPPI T404	kN/m	0,80	1,2	
			gr/inch.	2,044	3,067	
	Tensile MD	Internal Method 10'	Kg/15 mm	1,22	1,84	
	Tensile MD	Internal Method 10'	kN/m			
			gr/inch.			
	Tensile MD After Fold	Internal Method	Kg/15 mm			
	Tensile MD After Fold	Internal Method	kN/m	0,57	0,80	
			gr/inch.	1,457	2,044	
	Burst	Internal Method	Kg/15 mm	0,87	1,22	
	Burst Wet	Internal Method 10'	kN/m			
			gr/inch.			
	Elongation MD	TAPPI T404	Kg/15 mm			
	Stiffness MD	TAPPI T543	kPa*m ² /gr	1,0		
	Water Repellency	Mil: Std 282 (Q-101)	mm	1,0	1,2	
			inches	15,7	27,6	
	Surface Tension	TAPPI T557	Kit #			
	Loss of Ignition	t 30' - T 520 °C	%		8,0	10,0
	Brightness	TAPPI T452	%	96,0	98,0	
	Yeld	Internal Method (%)	m ² /Kg	14,3	13,9	13,5
			ft ² /lb	69,8	67,8	66,0



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EACH MEDIA GRADE, IF REQUESTED, IS AVAILABLE TO BE SUPPLIED IN 1° CLASS FIRE REACTION (IN ACCORDANCE TO THE UNI 9177)	Type	HEPA H.Y.				
	Code	NFHEPH12				
	Description Test	TEST METHOD	UNITS	MIN	STD	MAX
		CONDITIONS 23 ± 2 °C - 50% ± 5 U.R.				
	Basis Weight	TAPPI T410	gr/m ²	70,0	72,0	74,0
			lb/3000ft ²	43,0	44,2	45,5
	Basis Weight Prefilter Layer	TAPPI T410	gr/m ²			
			lb/3000ft ²			
	Caliper	Internal Method	mm	0,380	0,410	0,440
			mils	15,0	16,1	17,3
	Bulk	TAPPI T500	cm ³ /gr	5,429	5,694	5,946
	Efficiency	@ 0,3μ 5.32 cm/sec	%	99,92	99,96	
	Pressure Drop	@ 0,3μ 5.32 cm/sec	mm H2O		22,5	25,0
			Pa		221	245
	MPPS Efficiency	EN1822 @ 1,7 cm/sec	%	99,9		
	Pressure Drop	EN1822 @ 1,7 cm/sec	mm H2O			8,0
			Pa			78
	MPPS Efficiency	EN1822 @ 3,2 cm/sec	%	99,7		
	Pressure Drop	EN1822 @ 3,2 cm/sec	mm H2O			15,5
			Pa			152
	Initial Dry Pressure Drop	Internal Method	mm H2O			
			Pa			
	Final Wet Pressure Drop	Internal Method 50 mm H2O 30''	mm H2O			
			Pa			
	Frazier Permeability	TAPPI T251	cfm			
	Tensile MD	TAPPI T404	kN/m	0,80	1,2	
			gr/inch.	2,044	3,067	
	Tensile MD	Internal Method 10'	Kg/15 mm	1,22	1,84	
	Tensile MD	Internal Method 10'	kN/m			
			gr/inch.			
	Tensile MD After Fold	Internal Method	Kg/15 mm			
	Tensile MD After Fold	Internal Method	kN/m	0,57	0,80	
			gr/inch.	1,457	2,044	
	Burst	Internal Method	Kg/15 mm	0,87	1,22	
	Burst Wet	Internal Method 10'	kN/m			
			gr/inch.			
	Elongation MD	TAPPI T404	Kg/15 mm			
	Stiffness MD	TAPPI T543	kPa*m ² /gr	1,0		
	Water Repellency	Mil: Std 282 (Q-101)	mm	1,0	1,2	
			inches	15,7	27,6	
	Surface Tension	TAPPI T557	Kit #			
	Loss of Ignition	t 30' - T 520 °C	%		8,0	10,0
	Brightness	TAPPI T452	%	96,0	98,0	
	Yeld	Internal Method (%)	m ² /Kg	14,3	13,9	13,5
			ft ² /lb	69,8	67,8	66,0



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Revision #

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Date

13/01/2003

Media Grade

EACH MEDIA GRADE, IF REQUESTED, IS AVAILABLE TO BE SUPPLIED IN 1° CLASS FIRE REACTION (IN ACCORDANCE TO THE UNI 9177)	Type	99% DOP				
	Code	NF99DH12				
ANTIMICROBIAL TREATMENT IS AVAILABLE IN EACH MEDIA GRADE	Description Test	TEST METHOD CONDITIONS 23 ± 2 °C - 50% ± 5 U.R.	UNITS	MIN	STD	MAX
	Basis Weight	TAPPI T410	gr/m ²	70,0	72,0	74,0
			lb/3000ft ²	43,0	44,2	45,5
	Basis Weight Prefilter Layer	TAPPI T410	gr/m ²			
			lb/3000ft ²			
	Caliper	Internal Method	mm	0,380	0,420	0,460
			mils	15,0	16,5	18,1
	Bulk	TAPPI T500	cm ³ /gr	5,429	5,833	6,216
	Efficiency	@ 0,3μ 5.32 cm/sec	%	98,0	99,0	
	Pressure Drop	@ 0,3μ 5.32 cm/sec	mm H2O		16,8	19,9
			Pa		165	195
	MPPS Efficiency	EN1822 @ 1,7 cm/sec	%	99,7		
	Pressure Drop	EN1822 @ 1,7 cm/sec	mm H2O			7,0
			Pa			69
	MPPS Efficiency	EN1822 @ 3,2 cm/sec	%	99,5		
	Pressure Drop	EN1822 @ 3,2 cm/sec	mm H2O			13,5
			Pa			132
	Initial Dry Pressure Drop	Internal Method DRY	mm H2O			
			Pa			
	Final Wet Pressure Drop	Internal Method WET	mm H2O			
			Pa			
	Frazier Permeability	TAPPI T251	cfm			
	Tensile MD	TAPPI T404	kN/m	0,90	1,2	
			gr/inch.	2,300	3,067	
			Kg/15 mm	1,38	1,84	
	Tensile MD	Internal Method 10'	kN/m			
			gr/inch.			
			Kg/15 mm			
	Tensile MD After Fold	Internal Method	kN/m	0,60	0,75	
			gr/inch.	1,533	1,917	
			Kg/15 mm	0,92	1,15	
	Tensile MD After Fold	Internal Method 10'	kN/m			
			gr/inch.			
			Kg/15 mm			
	Burst	Internal Method	kPa*m ² /gr	1,0		
	Burst Wet	Internal Method 10'	kPa*m ² /gr			
	Elongation MD	TAPPI T404	%	1,2	1,4	
	Stiffness MD	TAPPI T543	mg	800	900	
	Water Repellency	Mil: Std 282 (Q-101)	mm	300	500	
			inches	11,8	19,7	
	Surface Tension	TAPPI T557	Kit #			
	Loss of Ignition	t 30' - T 520 °C	%		8,0	10,0
	Brightness	TAPPI T452	%	94,0	95,0	
	Yeld	Internal Method (%)	m ² /Kg	14,3	13,9	13,5
			ft ² /lb	69,8	67,8	66,0



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Media Grade

EACH MEDIA GRADE, IF REQUESTED, IS AVAILABLE TO BE SUPPLIED IN 1° CLASS FIRE REACTION (IN ACCORDANCE TO THE UNI 9177)	Type	96% DOP				
	Code	NF96DH11				
	Description Test	TEST METHOD	UNITS	MIN	STD	MAX
		CONDITIONS 23 ± 2 °C - 50% ± 5 U.R.				
	Basis Weight	TAPPI T410	gr/m ²	70,0	72,0	74,0
			lb/3000ft ²	43,0	44,2	45,5
	Basis Weight Prefilter Layer	TAPPI T410	gr/m ²			
			lb/3000ft ²			
	Caliper	Internal Method	mm	0,380	0,420	0,460
			mils	15,0	16,5	18,1
	Bulk	TAPPI T500	cm ³ /gr	5,429	5,833	6,216
	Efficiency	@ 0,3μ 5.32 cm/sec	%	95,0		
	Pressure Drop	@ 0,3μ 5.32 cm/sec	mm H2O		10,2	13,8
			Pa		100	135
	MPPS Efficiency	EN1822 @ 1,7 cm/sec	%	96,0		
	Pressure Drop	EN1822 @ 1,7 cm/sec	mm H2O			5,0
			Pa			49
	MPPS Efficiency	EN1822 @ 3,2 cm/sec	%	95,0		
	Pressure Drop	EN1822 @ 3,2 cm/sec	mm H2O			9,0
			Pa			88
	Initial Dry Pressure Drop	Internal Method DRY	mm H2O			
			Pa			
	Final Wet Pressure Drop	Internal Method WET	mm H2O			
			Pa			
	Frazier Permeability	TAPPI T251	cfm			
	Tensile MD	TAPPI T404	kN/m	0,90	1,2	
			gr/inch.	2.300	3.067	
	Tensile MD	Internal Method 10'	Kg/15 mm	1,38	1,84	
	Tensile MD	Internal Method 10'	kN/m			
			gr/inch.			
	Tensile MD After Fold	Internal Method	Kg/15 mm			
	Tensile MD After Fold	Internal Method	kN/m	0,60	0,75	
			gr/inch.	1.533	1.917	
	Burst	Internal Method	Kg/15 mm	0,92	1,15	
	Burst Wet	Internal Method 10'	kN/m			
			gr/inch.			
	Elongation MD	TAPPI T404	Kg/15 mm			
	Stiffness MD	TAPPI T543	kPa*m ² /gr	1,0		
	Water Repellency	Mil: Std 282 (Q-101)	mm	1,2	1,4	
			inches	11,8	19,7	
	Surface Tension	TAPPI T557	Kit #			
	Loss of Ignition	t 30' - T 520 °C	%		8,0	10,0
	Brightness	TAPPI T452	%	94,0	95,0	
	Yeld	Internal Method (%)	m ² /Kg	14,3	13,9	13,5
			ft ² /lb	69,8	67,8	66,0



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Media Grade

EACH MEDIA GRADE, IF REQUESTED, IS AVAILABLE TO BE SUPPLIED IN 1° CLASS FIRE REACTION (IN ACCORDANCE TO THE UNI 9177)	Type	85% DOP				
	Code	NF85DH10				
ANTIMICROBIAL TREATMENT IS AVAILABLE IN EACH MEDIA GRADE	Description Test	TEST METHOD CONDITIONS 23 ± 2 °C - 50% ± 5 U.R.	UNITS	MIN	STD	MAX
	Basis Weight	TAPPI T410	gr/m ²	70,0	72,0	74,0
			lb/3000ft ²	43,0	44,2	45,5
	Basis Weight Prefilter Layer	TAPPI T410	gr/m ²			
			lb/3000ft ²			
	Caliper	Internal Method	mm	0,380	0,420	0,460
			mils	15,0	16,5	18,1
	Bulk	TAPPI T500	cm ³ /gr	5,429	5,833	6,216
	Efficiency	@ 0,3μ 5.32 cm/sec	%	85,0		
	Pressure Drop	@ 0,3μ 5.32 cm/sec	mm H2O		8,2	10,2
			Pa		80	100
	MPPS Efficiency	EN1822 @ 1,7 cm/sec	%	87,0		
	Pressure Drop	EN1822 @ 1,7 cm/sec	mm H2O			3,5
			Pa			34
	MPPS Efficiency	EN1822 @ 3,2 cm/sec	%	85,0		
	Pressure Drop	EN1822 @ 3,2 cm/sec	mm H2O			6,5
			Pa			64
	Initial Dry Pressure Drop	Internal Method DRY	mm H2O			
			Pa			
	Final Wet Pressure Drop	Internal Method WET	mm H2O			
			Pa			
	Frazier Permeability	TAPPI T251	cfm			
	Tensile MD	TAPPI T404	kN/m	0,90	1,2	
			gr/inch.	2.300	3.067	
			Kg/15 mm	1,38	1,84	
	Tensile MD	Internal Method 10'	kN/m			
			gr/inch.			
			Kg/15 mm			
	Tensile MD After Fold	Internal Method	kN/m	0,60	0,75	
			gr/inch.	1.533	1.917	
			Kg/15 mm	0,92	1,15	
	Tensile MD After Fold	Internal Method 10'	kN/m			
			gr/inch.			
			Kg/15 mm			
	Burst	Internal Method	kPa*m ² /gr	1,0		
	Burst Wet	Internal Method 10'	kPa*m ² /gr			
	Elongation MD	TAPPI T404	%	1,2	1,4	
	Stiffness MD	TAPPI T543	mg	800	900	
	Water Repellency	Mil: Std 282 (Q-101)	mm	300	500	
			inches	11,8	19,7	
	Surface Tension	TAPPI T557	Kit #			
	Loss of Ignition	t 30' - T 520 °C	%		8,0	10,0
	Brightness	TAPPI T452	%	94,0	95,0	
	Yeld	Internal Method (%)	m ² /Kg	14,3	13,9	13,5
			ft ² /lb	69,8	67,8	66,0



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02/08/2002

Media Grade

EACH MEDIA GRADE, IF REQUESTED, IS AVAILABLE TO BE SUPPLIED IN 1° CLASS FIRE REACTION (IN ACCORDANCE TO THE UNI 9177)	Type	ASHRAE 98% D.L.				
	Code	NF98ADF9				
	Description Test	TEST METHOD	UNITS	MIN	STD	MAX
		CONDITIONS 23 ± 2 °C - 50% ± 5 U.R.				
	Basis Weight	TAPPI T410	gr/m ²	76,0	80,0	84,0
			lb/3000ft ²	46,7	49,1	51,6
	Basis Weight Prefilter Layer	TAPPI T410	gr/m ²	20,0	22,0	24,0
			lb/3000ft ²	12,3	13,5	14,7
	Caliper	Internal Method	mm	0,460	0,490	0,520
			mils	18,1	19,3	20,5
	Bulk	TAPPI T500	cm ³ /gr	6,053	6,125	6,190
	Efficiency	@ 0,3μ 5.32 cm/sec	%	80	84	
	Pressure Drop	@ 0,3μ 5.32 cm/sec	mm H2O		6,5	8,5
			Pa		63,7	83,4
	MPPS Efficiency	EN1822 @ 1,7 cm/sec	%			
	Pressure Drop	EN1822 @ 1,7 cm/sec	mm H2O			
			Pa			
	MPPS Efficiency	EN1822 @ 3,2 cm/sec	%			
	Pressure Drop	EN1822 @ 3,2 cm/sec	mm H2O			
			Pa			
	Initial Dry Pressure Drop	Internal Method	mm H2O			
			Pa			
	Final Wet Pressure Drop	Internal Method 50 mm H2O 30''	mm H2O			
			Pa			
	Frazier Permeability	TAPPI T251	cfm	15	20	
	Tensile MD	TAPPI T404	kN/m	0,90	1,10	
			gr/inch.	2.300	2.811	
			Kg/15 mm	1,38	1,68	
	Tensile MD	Internal Method 10'	kN/m			
			gr/inch.			
			Kg/15 mm			
	Tensile MD After Fold	Internal Method	kN/m	0,60	0,75	
			gr/inch.	1.533	1.917	
			Kg/15 mm	0,92	1,15	
	Tensile MD After Fold	Internal Method 10'	kN/m			
			gr/inch.			
			Kg/15 mm			
	Burst	Internal Method	kPa*m ² /gr	1,2		
	Burst Wet	Internal Method 10'	kPa*m ² /gr			
	Elongation MD	TAPPI T404	%	1,2	1,4	
	Stiffness MD	TAPPI T543	mg	1000	1200	
	Water Repellency	Mil: Std 282 (Q-101)	mm	300	500	
			inches	12	20	
	Surface Tension	TAPPI T557	Kit #			
	Loss of Ignition	t 30' - T 520 °C	%		10,0	12,0
	Brightness	TAPPI T452	%	92,0	93,0	
	Yeld	Internal Method (%)	m ² /Kg	13,2	12,5	11,9
			ft ² /lb	64,3	61,0	58,1



CERTIFICATE n° 12931
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Quality Control

Andrea Frillici

Fabriano Filter Media S.p.A.

Technical Data Sheet

Revision #

2

Date

02/08/2002

Media Grade

EACH MEDIA GRADE, IF REQUESTED, IS AVAILABLE TO BE SUPPLIED IN 1° CLASS FIRE REACTION (IN ACCORDANCE TO THE UNI 9177)	Type	ASHRAE 95% H.A.				
	Code	NF95ADF9				
	Description Test	TEST METHOD	UNITS	MIN	STD	MAX
		CONDITIONS 23 ± 2 °C - 50% ± 5 U.R.				
	Basis Weight	TAPPI T410	gr/m ²	73,0	77,0	81,0
			lb/3000ft ²	44,8	47,3	49,8
	Basis Weight Prefilter Layer	TAPPI T410	gr/m ²	20,0	22,0	24,0
			lb/3000ft ²	12,3	13,5	14,7
	Caliper	Internal Method	mm	0,450	0,490	0,530
			mils	17,7	19,3	20,9
	Bulk	TAPPI T500	cm ³ /gr	6,164	6,364	6,543
	Efficiency	@ 0,3μ 5.32 cm/sec	%	70	72	
	Pressure Drop	@ 0,3μ 5.32 cm/sec	mm H2O		5,8	6,2
			Pa		56,9	60,8
	MPPS Efficiency	EN1822 @ 1,7 cm/sec	%			
	Pressure Drop	EN1822 @ 1,7 cm/sec	mm H2O			
			Pa			
	MPPS Efficiency	EN1822 @ 3,2 cm/sec	%			
	Pressure Drop	EN1822 @ 3,2 cm/sec	mm H2O			
			Pa			
	Initial Dry Pressure Drop	Internal Method	mm H2O			8
			Pa			78
	Final Wet Pressure Drop	Internal Method 50 mm H2O 30''	mm H2O			120
			Pa			1.177
	Frazier Permeability	TAPPI T251	cfm	20	25	
	Tensile MD	TAPPI T404	kN/m	0,90	1,10	
			gr/inch.	2.300	2.811	
			Kg/15 mm	1,38	1,68	
	Tensile MD	Internal Method 10'	kN/m			
			gr/inch.			
			Kg/15 mm			
	Tensile MD After Fold	Internal Method	kN/m	0,60	0,75	
			gr/inch.	1.533	1.917	
			Kg/15 mm	0,92	1,15	
	Tensile MD After Fold	Internal Method 10'	kN/m			
			gr/inch.			
			Kg/15 mm			
	Burst	Internal Method	kPa*m ² /gr	1,30		
	Burst Wet	Internal Method 10'	kPa*m ² /gr			
	Elongation MD	TAPPI T404	%	1,3	1,5	
	Stiffness MD	TAPPI T543	mg	900	1100	
	Water Repellency	Mil: Std 282 (Q-101)	mm	400	500	
			inches	16	20	
	Surface Tension	TAPPI T557	Kit #			
	Loss of Ignition	t 30' - T 520 °C	%		11,5	14,0
	Brightness	TAPPI T452	%	89,0	92,0	
	Yeld	Internal Method (%)	m ² /Kg	13,7	13,0	12,3
			ft ² /lb	66,9	63,4	60,3



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Andrea Frillici

Fabriano Filter Media S.p.A.

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Media Grade

EACH MEDIA GRADE, IF REQUESTED, IS AVAILABLE TO BE SUPPLIED IN 1° CLASS FIRE REACTION (IN ACCORDANCE TO THE UNI 9177)	Type	ASHRAE 95% H.A.				
	Code	NF95ADF8				
	Description Test	TEST METHOD	UNITS	MIN	STD	MAX
		CONDITIONS 23 ± 2 °C - 50% ± 5 U.R.				
	Basis Weight	TAPPI T410	gr/m ²	74,0	78,0	82,0
			lb/3000ft ²	45,5	47,9	50,4
	Basis Weight Prefilter Layer	TAPPI T410	gr/m ²	20,0	22,0	24,0
			lb/3000ft ²	12,3	13,5	14,7
	Caliper	Internal Method	mm	0,470	0,505	0,540
			mils	18,5	19,9	21,3
	Bulk	TAPPI T500	cm ³ /gr	6,351	6,474	6,585
	Efficiency	@ 0,3μ 5.32 cm/sec	%	55	60	
	Pressure Drop	@ 0,3μ 5.32 cm/sec	mm H2O		4,1	4,5
			Pa		40,2	44,1
	MPPS Efficiency	EN1822 @ 1,7 cm/sec	%			
	Pressure Drop	EN1822 @ 1,7 cm/sec	mm H2O			
			Pa			
	MPPS Efficiency	EN1822 @ 3,2 cm/sec	%			
	Pressure Drop	EN1822 @ 3,2 cm/sec	mm H2O			
			Pa			
	Initial Dry Pressure Drop	Internal Method	mm H2O			6
			Pa			59
	Final Wet Pressure Drop	Internal Method 50 mm H2O 30''	mm H2O			120
			Pa			1.177
	Frazier Permeability	TAPPI T251	cfm	30	35	
	Tensile MD	TAPPI T404	kN/m	0,90	1,10	
			gr/inch.	2.300	2.811	
			Kg/15 mm	1,38	1,68	
	Tensile MD	Internal Method 10'	kN/m			
			gr/inch.			
			Kg/15 mm			
	Tensile MD After Fold	Internal Method	kN/m	0,60	0,75	
			gr/inch.	1.533	1.917	
			Kg/15 mm	0,92	1,15	
	Tensile MD After Fold	Internal Method 10'	kN/m			
			gr/inch.			
			Kg/15 mm			
	Burst	Internal Method	kPa*m ² /gr	1,30		
	Burst Wet	Internal Method 10'	kPa*m ² /gr			
	Elongation MD	TAPPI T404	%	1,3	1,5	
	Stiffness MD	TAPPI T543	mg	900	1100	
	Water Repellency	Mil: Std 282 (Q-101)	mm	400	500	
			inches	16	20	
	Surface Tension	TAPPI T557	Kit #			
	Loss of Ignition	t 30' - T 520 °C	%		11,5	14,0
	Brightness	TAPPI T452	%	89,0	92,0	
	Yeld	Internal Method (%)	m ² /Kg	13,5	12,8	12,2
			ft ² /lb	66,0	62,6	59,6



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Andrea Frillici

Fabriano Filter Media S.p.A.

Technical Data Sheet

Revision #

1

Date

06/09/2002

Media Grade

EACH MEDIA GRADE, IF REQUESTED, IS AVAILABLE TO BE SUPPLIED IN 1° CLASS FIRE REACTION (IN ACCORDANCE TO THE UNI 9177)	Type	ASHRAE 95% COL.				
	Code	NF95ASF8				
	Description Test	TEST METHOD	UNITS	MIN	STD	MAX
		CONDITIONS 23 ± 2 °C - 50% ± 5 U.R.				
	Basis Weight	TAPPI T410	gr/m ²	67,0	70,0	73,0
			lb/3000ft ²	41,2	43,0	44,8
	Basis Weight Prefilter Layer	TAPPI T410	gr/m ²			
			lb/3000ft ²			
	Caliper	Internal Method	mm	0,400	0,440	0,480
			mils	15,7	17,3	18,9
	Bulk	TAPPI T500	cm ³ /gr	5,970	6,286	6,575
	Efficiency	@ 0,3μ 5.32 cm/sec	%	55	60	
	Pressure Drop	@ 0,3μ 5.32 cm/sec	mm H2O		4,1	4,5
			Pa		40,2	44,1
	MPPS Efficiency	EN1822 @ 1,7 cm/sec	%			
	Pressure Drop	EN1822 @ 1,7 cm/sec	mm H2O			
			Pa			
	MPPS Efficiency	EN1822 @ 3,2 cm/sec	%			
	Pressure Drop	EN1822 @ 3,2 cm/sec	mm H2O			
			Pa			
	Initial Dry Pressure Drop	Internal Method	mm H2O			
			Pa			
	Final Wet Pressure Drop	Internal Method 50 mm H2O 30''	mm H2O			
			Pa			
	Frazier Permeability	TAPPI T251	cfm	30	35	
	Tensile MD	TAPPI T404	kN/m	0,90	1,10	
			gr/inch.	2,300	2,811	
			Kg/15 mm	1,38	1,68	
	Tensile MD	Internal Method 10'	kN/m			
			gr/inch.			
			Kg/15 mm			
	Tensile MD After Fold	Internal Method	kN/m	0,60	0,75	
			gr/inch.	1,533	1,917	
			Kg/15 mm	0,92	1,15	
	Tensile MD After Fold	Internal Method 10'	kN/m			
			gr/inch.			
			Kg/15 mm			
	Burst	Internal Method	kPa*m ² /gr	1,30		
	Burst Wet	Internal Method 10'	kPa*m ² /gr			
	Elongation MD	TAPPI T404	%	1,3	1,5	
	Stiffness MD	TAPPI T543	mg	800	1000	
	Water Repellency	Mil: Std 282 (Q-101)	mm	300	400	
			inches	12	16	
	Surface Tension	TAPPI T557	Kit #			
	Loss of Ignition	t 30' - T 520 °C	%		11,5	14,0
	Brightness	TAPPI T452	%	89,0	92,0	
	Yeld	Internal Method (%)	m ² /Kg	14,9	14,3	13,7
			ft ² /lb	72,9	69,8	66,9



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Fabriano Filter Media S.p.A.

Technical Data Sheet

Revision #

0

Date

06/09/2001

Media Grade

EACH MEDIA GRADE, IF REQUESTED, IS AVAILABLE TO BE SUPPLIED IN 1° CLASS FIRE REACTION (IN ACCORDANCE TO THE UNI 9177)	Type	ASHRAE 95% COL "70g/m ² " (Single layer)				
	Code	NF90ASF8				
	Description Test	TEST METHOD CONDITIONS 23 ± 2 °C - 50% ± 5 U.R.	UNITS	MIN	STD	MAX
	Basis Weight	TAPPI T410	gr/m ²	68,0	70,0	72,0
			lb/3000ft ²	41,8	43,0	44,2
	Basis Weight Prefilter Layer	TAPPI T410	gr/m ²			
			lb/3000ft ²			
	Caliper	TAPPI T411	mm	0,330	0,360	0,390
			mils	13,0	14,2	15,4
	Bulk	TAPPI T500	cm ³ /gr	4,853	5,143	5,417
	Efficiency	@ 0,3μ 5.32 cm/sec	%	55	60	
	Pressure Drop	@ 0,3μ 5.32 cm/sec	mm H2O		4,1	4,5
			Pa		40,2	44,1
	MPPS Efficiency	EN1822 @ 1,7 cm/sec	%			
ANTIMICROBIAL TREATMENT IS AVAILABLE IN EACH MEDIA GRADE	Pressure Drop	EN1822 @ 1,7 cm/sec	mm H2O			
			Pa			
	MPPS Efficiency	EN1822 @ 3,2 cm/sec	%			
	Pressure Drop	EN1822 @ 3,2 cm/sec	mm H2O			
			Pa			
	Initial Dry Pressure Drop	Internal Method	mm H2O			
			Pa			
	Final Wet Pressure Drop	Internal Method 50 mm H2O 30''	mm H2O			
			Pa			
	Frazier Permeability	TAPPI T251	cfm	30	35	
	Tensile MD	TAPPI T404	kN/m	0,80	1,00	
			gr/inch.	2.044	2.556	
			Kg/15 mm	1,22	1,53	
	Tensile MD	Internal Method 10'	kN/m			
			gr/inch.			
			Kg/15 mm			
	Tensile MD After Fold	Internal Method	kN/m	0,55	0,70	
			gr/inch.	1.406	1.789	
			Kg/15 mm	0,84	1,07	
	Tensile MD After Fold	Internal Method 10'	kN/m			
			gr/inch.			
			Kg/15 mm			
	Burst	Internal Method	kPa*m ² /gr	1,2		
	Burst Wet	Internal Method 10'	kPa*m ² /gr			
	Elongation MD	TAPPI T404	%	1,0	1,2	
	Stiffness MD	TAPPI T543	mg	600	800	
	Water Repellency	Mil: Std 282 (Q-101)	mm	300	400	
			inches	11,8	15,7	
	Surface Tension	TAPPI T557	Kit #			
	Loss of Ignition	t 30' - T 520 °C	%		13,0	14,0
	Brightness	TAPPI T452	%	88,0	90,0	
	Yeld	Internal Method (%)	m ² /Kg	14,7	14,3	13,9
			ft ² /lb	71,8	69,8	67,8



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Quality Control

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Fabriano Filter Media S.p.A.

Technical Data Sheet

Revision #

2

Date

02/08/2002

Media Grade

EACH MEDIA GRADE, IF REQUESTED, IS AVAILABLE TO BE SUPPLIED IN 1° CLASS FIRE REACTION (IN ACCORDANCE TO THE UNI 9177)	Type	ASHRAE 85% H.A.				
	Code	NF85ADF7				
	Description Test	TEST METHOD	UNITS	MIN	STD	MAX
		CONDITIONS 23 ± 2 °C - 50% ± 5 U.R.				
	Basis Weight	TAPPI T410	gr/m ²	74,0	78,0	82,0
			lb/3000ft ²	45,5	47,9	50,4
	Basis Weight Prefilter Layer	TAPPI T410	gr/m ²	20,0	22,0	24,0
			lb/3000ft ²	12,3	13,5	14,7
	Caliper	Internal Method	mm	0,470	0,505	0,540
			mils	18,5	19,9	21,3
	Bulk	TAPPI T500	cm ³ /gr	6,351	6,474	6,585
	Efficiency	@ 0,3μ 5.32 cm/sec	%	45	50	
	Pressure Drop	@ 0,3μ 5.32 cm/sec	mm H2O		3,1	3,5
			Pa		30,4	34,3
	MPPS Efficiency	EN1822 @ 1,7 cm/sec	%			
	Pressure Drop	EN1822 @ 1,7 cm/sec	mm H2O			
			Pa			
	MPPS Efficiency	EN1822 @ 3,2 cm/sec	%			
	Pressure Drop	EN1822 @ 3,2 cm/sec	mm H2O			
			Pa			
	Initial Dry Pressure Drop	Internal Method	mm H2O			5
			Pa			49
	Final Wet Pressure Drop	Internal Method 50 mm H2O 30''	mm H2O			160
			Pa			1.569
	Frazier Permeability	TAPPI T251	cfm	40	45	
	Tensile MD	TAPPI T404	kN/m	0,90	1,10	
			gr/inch.	2.300	2.811	
			Kg/15 mm	1,38	1,68	
	Tensile MD	Internal Method 10'	kN/m			
			gr/inch.			
			Kg/15 mm			
	Tensile MD After Fold	Internal Method	kN/m	0,60	0,75	
			gr/inch.	1.533	1.917	
			Kg/15 mm	0,92	1,15	
	Tensile MD After Fold	Internal Method 10'	kN/m			
			gr/inch.			
			Kg/15 mm			
	Burst	Internal Method	kPa*m ² /gr	1,30		
	Burst Wet	Internal Method 10'	kPa*m ² /gr			
	Elongation MD	TAPPI T404	%	1,3	1,5	
	Stiffness MD	TAPPI T543	mg	900	1100	
	Water Repellency	Mil: Std 282 (Q-101)	mm	300	400	
			inches	12	16	
	Surface Tension	TAPPI T557	Kit #			
	Loss of Ignition	t 30' - T 520 °C	%		11,5	14,0
	Brightness	TAPPI T452	%	89,0	92,0	
	Yeld	Internal Method (%)	m ² /Kg	13,5	12,8	12,2
			ft ² /lb	66,0	62,6	59,6



CERTIFICATE n° 12931
UNI EN ISO 9001

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Andrea Frillici

Fabriano Filter Media S.p.A.

Technical Data Sheet

Revision #

1

Date

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Media Grade

EACH MEDIA GRADE, IF REQUESTED, IS AVAILABLE TO BE SUPPLIED IN 1° CLASS FIRE REACTION (IN ACCORDANCE TO THE UNI 9177)	Type	ASHRAE 85% COL.				
	Code	NF85ASF7				
	Description Test	TEST METHOD	UNITS	MIN	STD	MAX
		CONDITIONS 23 ± 2 °C - 50% ± 5 U.R.				
	Basis Weight	TAPPI T410	gr/m ²	67,0	70,0	73,0
			lb/3000ft ²	41,2	43,0	44,8
	Basis Weight Prefilter Layer	TAPPI T410	gr/m ²			
			lb/3000ft ²			
	Caliper	Internal Method	mm	0,400	0,440	0,480
			mils	15,7	17,3	18,9
	Bulk	TAPPI T500	cm ³ /gr	5,970	6,286	6,575
	Efficiency	@ 0,3μ 5.32 cm/sec	%	45	50	
	Pressure Drop	@ 0,3μ 5.32 cm/sec	mm H2O		3,1	3,5
			Pa		30,4	34,3
	MPPS Efficiency	EN1822 @ 1,7 cm/sec	%			
	Pressure Drop	EN1822 @ 1,7 cm/sec	mm H2O			
			Pa			
	MPPS Efficiency	EN1822 @ 3,2 cm/sec	%			
	Pressure Drop	EN1822 @ 3,2 cm/sec	mm H2O			
			Pa			
	Initial Dry Pressure Drop	Internal Method	mm H2O			
			Pa			
	Final Wet Pressure Drop	Internal Method 50 mm H2O 30''	mm H2O			
			Pa			
	Frazier Permeability	TAPPI T251	cfm	40	45	
	Tensile MD	TAPPI T404	kN/m	0,90	1,10	
			gr/inch.	2.300	2.811	
			Kg/15 mm	1,38	1,68	
	Tensile MD	Internal Method 10'	kN/m			
			gr/inch.			
			Kg/15 mm			
	Tensile MD After Fold	Internal Method	kN/m	0,60	0,75	
			gr/inch.	1.533	1.917	
			Kg/15 mm	0,92	1,15	
	Tensile MD After Fold	Internal Method 10'	kN/m			
			gr/inch.			
			Kg/15 mm			
	Burst	Internal Method	kPa*m ² /gr	1,30		
	Burst Wet	Internal Method 10'	kPa*m ² /gr			
	Elongation MD	TAPPI T404	%	1,3	1,5	
	Stiffness MD	TAPPI T543	mg	800	1000	
	Water Repellency	Mil: Std 282 (Q-101)	mm	300	400	
			inches	12	16	
	Surface Tension	TAPPI T557	Kit #			
	Loss of Ignition	t 30' - T 520 °C	%		11,5	14,0
	Brightness	TAPPI T452	%	89,0	92,0	
	Yeld	Internal Method (%)	m ² /Kg	14,9	14,3	13,7
			ft ² /lb	72,9	69,8	66,9



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Andrea Frillici

Fabriano Filter Media S.p.A.

Technical Data Sheet

Revision #

1

Date

02/08/2002

Media Grade

EACH MEDIA GRADE, IF REQUESTED, IS AVAILABLE TO BE SUPPLIED IN 1° CLASS FIRE REACTION (IN ACCORDANCE TO THE UNI 9177)	Type	ASHRAE 85% COL "70g/m ² "(Single layer)				
	Code	NF80ASF7				
	Description Test	TEST METHOD CONDITIONS 23 ± 2 °C - 50% ± 5 U.R.	UNITS	MIN	STD	MAX
	Basis Weight	TAPPI T410	gr/m ²	68,0	70,0	72,0
			lb/3000ft ²	41,8	43,0	44,2
	Basis Weight Prefilter Layer	TAPPI T410	gr/m ²			
			lb/3000ft ²			
	Caliper	TAPPI T411	mm	0,330	0,360	0,390
			mils	13,0	14,2	15,4
	Bulk	TAPPI T500	cm ³ /gr	4,853	5,143	5,417
	Efficiency	@ 0,3μ 5.32 cm/sec	%	45	50	
	Pressure Drop	@ 0,3μ 5.32 cm/sec	mm H2O		3,1	3,5
			Pa		30,4	34,3
	MPPS Efficiency	EN1822 @ 1,7 cm/sec	%			
	Pressure Drop	EN1822 @ 1,7 cm/sec	mm H2O			
			Pa			
	MPPS Efficiency	EN1822 @ 3,2 cm/sec	%			
	Pressure Drop	EN1822 @ 3,2 cm/sec	mm H2O			
			Pa			
	Initial Dry Pressure Drop	Internal Method	mm H2O			
			Pa			
ANTIMICROBIAL TREATMENT IS AVAILABLE IN EACH MEDIA GRADE	Final Wet Pressure Drop	Internal Method 50 mm H2O 30''	mm H2O			
			Pa			
	Frazier Permeability	TAPPI T251	cfm	40	45	
	Tensile MD	TAPPI T404	kN/m	0,80	1,00	
			gr/inch.	2.044	2.556	
			Kg/15 mm	1,22	1,53	
	Tensile MD	Internal Method 10'	kN/m			
			gr/inch.			
			Kg/15 mm			
	Tensile MD After Fold	Internal Method	kN/m	0,55	0,70	
			gr/inch.	1.406	1.789	
			Kg/15 mm	0,84	1,07	
	Tensile MD After Fold	Internal Method 10'	kN/m			
			gr/inch.			
			Kg/15 mm			
	Burst	Internal Method	kPa*m ² /gr	1,2		
	Burst Wet	Internal Method 10'	kPa*m ² /gr			
	Elongation MD	TAPPI T404	%	1,0	1,2	
	Stiffness MD	TAPPI T543	mg	600	800	
	Water Repellency	Mil: Std 282 (Q-101)	mm	300	400	
			inches	11,8	15,7	
	Surface Tension	TAPPI T557	Kit #			
	Loss of Ignition	t 30' - T 520 °C	%		13,0	14,0
	Brightness	TAPPI T452	%	88,0	90,0	
	Yeld	Internal Method (%)	m ² /Kg	14,7	14,3	13,9
			ft ² /lb	71,8	69,8	67,8



CERTIFICATE n° 1293/1
UNI EN ISO 9001

Quality Control

Andrea Frillici

Fabriano Filter Media S.p.A.

Technical Data Sheet

Revision #

2

Date

02/09/2002

Media Grade

EACH MEDIA GRADE, IF REQUESTED, IS AVAILABLE TO BE SUPPLIED IN 1° CLASS FIRE REACTION (IN ACCORDANCE TO THE UNI 9177)	Type	ASHRAE 65% H.A.				
	Code	NF65ADF6				
	Description Test	TEST METHOD	UNITS	MIN	STD	MAX
		CONDITIONS 23 ± 2 °C - 50% ± 5 U.R.				
	Basis Weight	TAPPI T410	gr/m ²	66,0	68,0	70,0
			lb/3000ft ²	40,5	41,8	43,0
	Basis Weight Prefilter Layer	TAPPI T410	gr/m ²	20,0	22,0	24,0
			lb/3000ft ²	12,3	13,5	14,7
	Caliper	Internal Method	mm	0,400	0,450	0,500
			mils	15,7	17,7	19,7
	Bulk	TAPPI T500	cm ³ /gr	6,061	6,618	7,143
	Efficiency	@ 0,3μ 5.32 cm/sec	%	15	30	
	Pressure Drop	@ 0,3μ 5.32 cm/sec	mm H2O		1,5	1,8
			Pa		15	18
	MPPS Efficiency	EN1822 @ 1,7 cm/sec	%			
	Pressure Drop	EN1822 @ 1,7 cm/sec	mm H2O			
			Pa			
	MPPS Efficiency	EN1822 @ 3,2 cm/sec	%			
	Pressure Drop	EN1822 @ 3,2 cm/sec	mm H2O			
			Pa			
	Initial Dry Pressure Drop	Internal Method	mm H2O			2
			Pa			20
	Final Wet Pressure Drop	Internal Method 50 mm H2O 30''	mm H2O			200
			Pa			1.961
	Frazier Permeability	TAPPI T251	cfm	90	100	
	Tensile MD	TAPPI T404	kN/m	0,80	0,90	
			gr/inch.	2.044	2.300	
			Kg/15 mm	1,22	1,38	
	Tensile MD	Internal Method 10'	kN/m			
			gr/inch.			
			Kg/15 mm			
	Tensile MD After Fold	Internal Method	kN/m	0,55	0,70	
			gr/inch.	1.406	1.789	
			Kg/15 mm	0,84	1,07	
	Tensile MD After Fold	Internal Method 10'	kN/m			
			gr/inch.			
			Kg/15 mm			
	Burst	Internal Method	kPa*m ² /gr	1,3		
	Burst Wet	Internal Method 10'	kPa*m ² /gr			
	Elongation MD	TAPPI T404	%	1,3	1,5	
	Stiffness MD	TAPPI T543	mg	600	800	
	Water Repellency	Mil: Std 282 (Q-101)	mm	125		
			inches	5		
	Surface Tension	TAPPI T557	Kit #			
	Loss of Ignition	t 30' - T 520 °C	%		22,0	25,0
	Brightness	TAPPI T452	%	87,0	89,0	
	Yeld	Internal Method (%)	m ² /Kg	15,2	14,7	14,3
			ft ² /lb	74,0	71,8	69,8



CERTIFICATE n° 12931
UNI EN ISO 9001

Quality Control

Andrea Frillici

Fabriano Filter Media S.p.A.

Technical Data Sheet

Revision #

1

Date

22/08/2002

Media Grade

Type	ASHRAE 65% COL.				
	NF65ASF6				
Description Test	TEST METHOD	UNITS	MIN	STD	MAX
CONDITIONS 23 ± 2 °C - 50% ± 5 U.R.					
Basis Weight	TAPPI T410	gr/m ²	58,0	60,0	62,0
		lb/3000ft ²	35,6	36,9	38,1
Basis Weight Prefilter Layer	TAPPI T410	gr/m ²			
		lb/3000ft ²			
Caliper	Internal Method	mm	0,320	0,360	0,400
		mils	12,6	14,2	15,7
Bulk	TAPPI T500	cm ³ /gr	5,517	6,000	6,452
Efficiency	@ 0,3μ 5.32 cm/sec	%	15	30	
Pressure Drop	@ 0,3μ 5.32 cm/sec	mm H2O		1,5	1,8
		Pa		15	18
MPPS Efficiency	EN1822 @ 1,7 cm/sec	%			
Pressure Drop	EN1822 @ 1,7 cm/sec	mm H2O			
		Pa			
MPPS Efficiency	EN1822 @ 3,2 cm/sec	%			
Pressure Drop	EN1822 @ 3,2 cm/sec	mm H2O			
		Pa			
Initial Dry Pressure Drop	Internal Method	mm H2O			
		Pa			
Final Wet Pressure Drop	Internal Method 50 mm H2O 30''	mm H2O			
		Pa			
Frazier Permeability	TAPPI T251	cfm	90	100	
Tensile MD	TAPPI T404	kN/m	0,80	0,90	
		gr/inch.	2,044	2,300	
		Kg/15 mm	1,22	1,38	
Tensile MD	Internal Method 10'	kN/m			
		gr/inch.			
		Kg/15 mm			
Tensile MD After Fold	Internal Method	kN/m	0,55	0,70	
		gr/inch.	1,406	1,789	
		Kg/15 mm	0,84	1,07	
Tensile MD After Fold	Internal Method 10'	kN/m			
		gr/inch.			
		Kg/15 mm			
Burst	Internal Method	kPa*m ² /gr	1,3		
Burst Wet	Internal Method 10'	kPa*m ² /gr			
Elongation MD	TAPPI T404	%	1,3	1,5	
Stiffness MD	TAPPI T543	mg	600	800	
Water Repellency	Mil: Std 282 (Q-101)	mm	125		
		inches	5		
Surface Tension	TAPPI T557	Kit #			
Loss of Ignition	t 30' - T 520 °C	%		22,0	25,0
Brightness	TAPPI T452	%	86,0	88,0	
Yeld	Internal Method (%)	m ² /Kg	17,2	16,7	16,1
		ft ² /lb	84,2	81,4	78,8



CERTIFICATE n° 12931
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