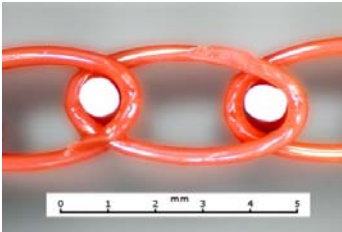
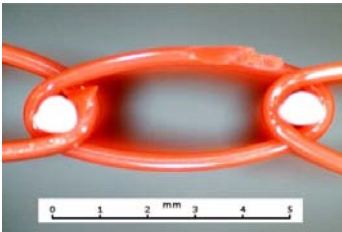
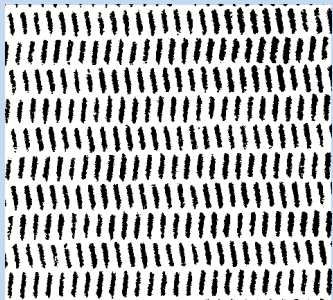
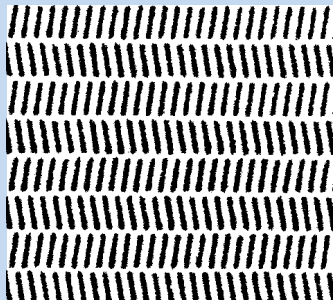




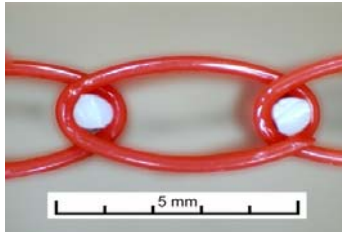
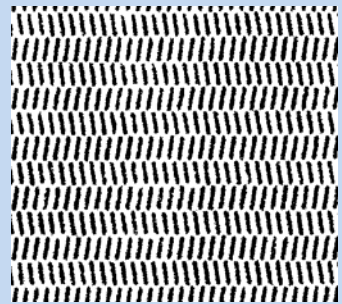
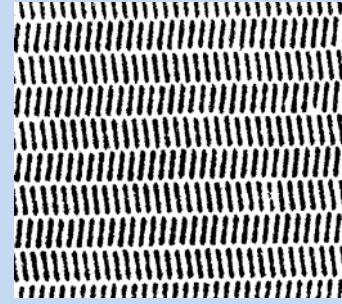
**Württembergische
Spiralsiebfabrik GmbH**

Spiral products by comparison

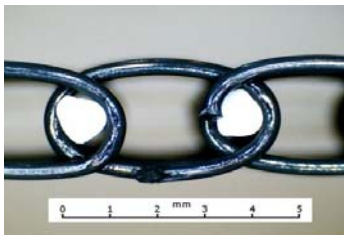
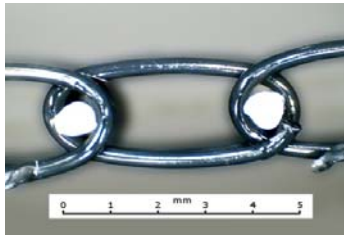
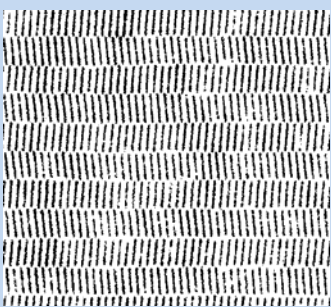
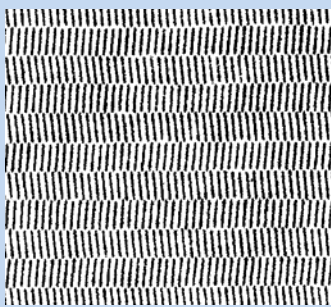
State: 25.01.2012

		ALBANY	WSF
	Spiral shape	Standard	Wide spiral
	WSF declaration	43000 FS	43000 FSL
	Cross cut picture of raw Spirals		
	Spiral monofilament	0,43 x 0,70	0,43 x 0,70
	Assemble monofilament	0,70	0,70
raw fabric	Spiral size (outside)	5,20 x 2,90	6,75 x 2,90
	Inside Width of canal	1,79	3,5
	Insied Height of canal	2,04	2,12
	Ratio W : H	0,877	1,651
	Spirals / m	282	196
	GSM	1010	815
finished (after heat set)	Print of surface (finished fabric)		
	Suface	27%	37%
	Thickness (finished)	1,80 - 1,90	1,70 - 1,80
	Air permeability	950	90, 110, 125, 150, 200, 250, 300, 400

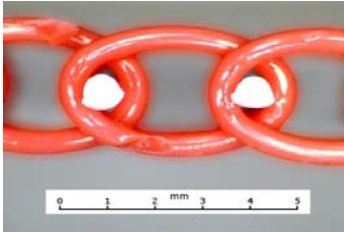
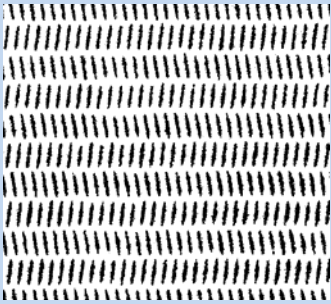
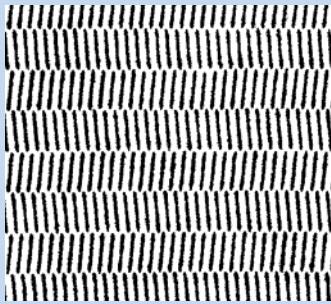
State: 25.01.2012

		Heimbach	WSF
	Spiral shape	Standard	Wide spiral
	WSF declaration	38000 FS	38000 FSL
	Cross cut picture of raw Spirals		
	Spiral monofilament	0,38 x 0,58	0,38 x 0,58
	Assemble monofilament	0,70	0,70
raw fabric	Spiral size (outside)	4,50 x 2,50	5,60 x 2,70
	Inside Width of canal	1,47	2,5
	Insied Height of canal	1,62	1,9
	Ratio W : H	0,907	1,310
	Spirals / m	336	238
	GSM	955	780
finished (after heat set)	Print of surface (finished fabric)		
	Suface	36%	38%
	Thickness (finished)	1,60 - 1,70	1,60 - 1,70
	Air permeability	900	900

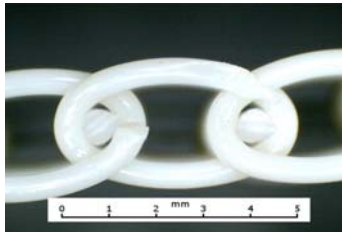
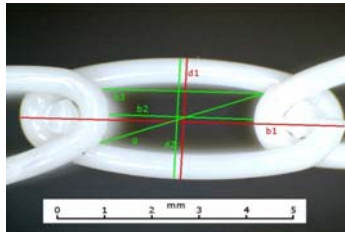
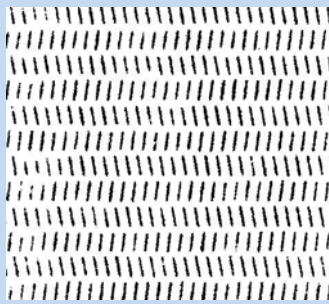
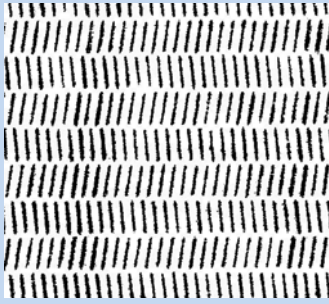
State: 25.01.2012

		VOITH	WSF
	Spiral shape	Standard	Wide spiral
	WSF declaration	40000 S	40000 SL
	Cross cut picture of raw Spirals		
	Spiral monofilament	Ø 0,40	Ø 0,40
	Assemble monofilament	0,90	0,70
raw fabric	Spiral size (outside)	5,00 x 2,90	5,50 x 2,50
	Inside Width of canal	1,61	2,21
	Insied Height of canal	1,99	1,88
	Ratio W : H	0,809	1,176
	Spirals / m	298	262
	GSM	1033	827
finished (after heat set)	Print of surface (finished fabric)		
	Suface	25%	35%
	Thickness (finished)	1,60 - 1,70	1,60 - 1,70
	Air permeability	900	900, ?

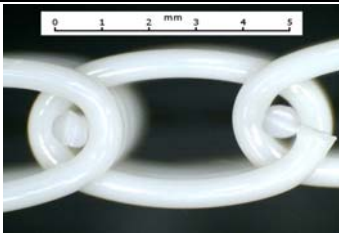
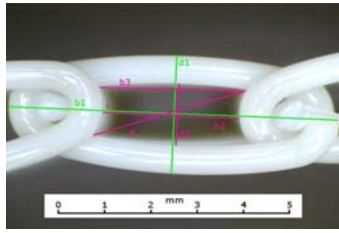
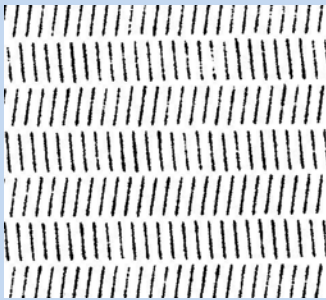
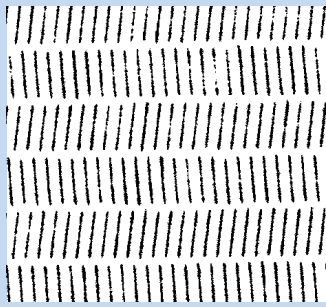
State: 25.01.2012

		VOITH	WSF
	Spiral shape	Standard	Wide spiral
	WSF declaration	55000 S	55000 SL
	Cross cut picture of raw Spirals		
	Spiral monofilament	Ø 0,55	Ø 0,55
	Assemble monofilament	0,70	0,70
raw fabric	Spiral size (outside)	5,10 x 3,20	7,25 x 2,90
	Inside Width of canal	1,18	3,34
	Insied Height of canal	1,98	1,77
	Ratio W : H	0,596	1,890
	Spirals / m	320	188
	GSM	1323	955
finished (after heat set)	Print of surface (finished fabric)		
	Suface	24%	37%
	Thickness (finished)	2,10	2,00
	Air permeability	900	900

State: 25.01.2012

		WSF	WSF
	Spiral shape	Standard	Wide spiral
	WSF declaration	60000 S	60000 SL
	Cross cut picture of raw Spirals		
	Spiral monofilament	Ø 0,60	Ø 0,60
	Assemble monofilament	0,70	0,70
raw fabric	Spiral size (outside)	5,40 x 3,20	6,80 x 3,25
	Inside Width of canal	1,23	3,04
	Insied Height of canal	1,83	1,7
	Ratio W : H	0,672	1,788
	Spirals / m	298	211
	GSM	1387	900
finished (after heat set)	Print of surface (finished fabric)		
	Suface	16%	25%
	Thickness (finished)	2,10 - 2,20	2,10 - 2,20
	Air permeability	900	900

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		WSF	WSF
	Spiral shape	Standard	Wide spiral
	WSF declaration	70000 S	70000 SL
	Cross cut picture of raw Spirals		
	Spiral monofilament	Ø 0,70	Ø 0,70
	Assemble monofilament	0,70	0,70
raw fabric	Spiral size (outside)	6,80 x 3,80	8,40 x 3,40
	Inside Width of canal	2,24	3,77
	Insied Height of canal	2,26	1,86
	Ratio W : H	0,991	2,027
	Spirals / m	230	165
	GSM	1568	1180
finished (after heat set)	Print of surface (finished fabric)		
	Suface	21%	23%
	Thickness (finished)	2,20 - 2,30	2,20 - 2,30
	Air permeability	950	950