## **CONTAFLEX** TECHNICAL DATA

## **Centamac**°

Contaflex soft lens materials consist of a range of water contents between 38% and 77%. All of our soft lens materials exhibit zero stress and excellent machinability. Some materials in our range are FDA-cleared. Please check individual material datasheets for more information.

Please Note: Regulatory requirements and standards vary from country to country, and are constantly evolving. As a global company we want to be sure we provide you with detailed technical information, specific to your market, where appropriate, rather than using the condensed and simplified technical information on the website. If you need to use technical data for quality paperwork, or for a regulatory submission, please contact your account manager to obtain this precise and detailed information to support your regulatory requirements, we will be happy to help.

### **Material Characteristics**

38%*	55%*	67%	77%
8	23	37	46
38	55	67	77
1.20	1.35	1.47	1.66
1.44	1.41	1.39	1.38
1.51	1.51	1.52	1.53
0.79	0.71	0.56	0.46
1.09	0.99	0.60	1.16
272	220	169	259
Available	Available	Available	Standard
Filcon I 1	Methafilcon A IV 2	N/A	N/A
Filcon 1 (8) [38%]	Methafilcon A 4 (20) [55%]	Filcon 2 (37) [67%]	Filcon 2 (46) [77%]
Polymacon	Methafilcon A	N/A	N/A
	8 38 1.20 1.44 1.51 0.79 0.79 1.09 272 272 Available Filcon 11 SFilcon 1(8) [38%]	8 23   38 55   1.20 1.35   1.44 1.41   1.51 1.51   0.79 0.71   1.09 0.99   272 220   Available Available   Filcon 11 Methafilcon A IV 2   Filcon 1(8) Methafilcon A 4 (20) [55%]	8 23 37   38 55 67   1.20 1.35 1.47   1.20 1.35 1.47   1.44 1.41 1.39   1.51 1.51 1.52   0.79 0.71 0.56   1.09 0.99 0.60   272 220 169   Available Available Available   Filcon 11 Methafilcon A(20) [55%] N/A

Please note: Some values may have been rounded for presentation purposes. Please contact your account manager for further details.

\*Contamac offers several variants of this material. Material properties may vary from the indicative values quoted above. Please contact your account manager for further details.

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# CONTAFLEX

### Material and Lathing Recommendations - 38%

### **Centamac**°

LATHE FUNCTION	DAC INCHES/MINUTE	REM µ/second	
Rough Cut Amount (mm)	0.50	0.50	0.50
	(0.30 - 0.50)	(0.30 - 0.50)	(0.30 - 0.50)
Rough Feed Rate	3	1250	75
	(2 - 4)	(833 - 1666)	(50 - 100)
Rough Spindle Speed	8500	8500	8500
	(7000 - 9000)	(7000 - 9000)	(7000 - 9000)
Rough Cut Amount (mm) (Last Pass)	0.15	0.15	0.15
	(0.10 - 0.20)	(0.10 - 0.20)	(0.10 - 0.20)
Rough Feed Rate (Last Pass)	1.5	666	40
	(1 - 2)	(500 - 833)	(30 - 50)
Rough Spindle Speed (Last Pass)	8000	8000	8000
	(7000 - 9000)	(7000 - 9000)	(7000 - 9000)
Final Feed Rate	0.60	250	15
	(0.40 - 1)	(166 - 500)	(10 - 30)
Final Spindle Speed	8000	8000	8000
	(7000 - 9000)	(7000 - 9000)	(7000 - 9000)
Final Cut Amount (mm)	0.05	0.05	0.05
	(0.05 - 0.10)	(0.05 - 0.10)	(0.05 - 0.10)

### Material and Lathing Recommendations - 55%

LATHE FUNCTION	DAC INCHES/MINUTE	REM µ/second		
Rough Cut Amount (mm)	0.40 (0.30 - 0.50)	0.40 (0.30 - 0.50)	0.40 (0.30 - 0.50)	
Rough Feed Rate	2.5 (2 - 4)	1050 (833 - 1666)	63 (50 - 100)	
Rough Spindle Speed	8500 (7000 - 9000)	8500 (7000 - 9000)	8500 (7000 - 9000)	
Rough Cut Amount (mm) (Last Pass)	0.15 (0.10 - 0.20)	0.15 (0.10 - 0.20)	0.15 (0.10 - 0.20)	
Rough Feed Rate (Last Pass)	1 (0.80 - 1.5)	416 (333 - 633)	25 (20 - 38)	
Rough Spindle Speed (Last Pass)	8000 (7000 - 9000)	8000 (7000 - 9000)	8000 (7000 - 9000)	
Final Feed Rate	0.60 (0.50 - 0.80)	250 (166 - 333)	15 (10 - 20)	
Final Spindle Speed	8000 (7000 - 9000)	8000 (7000 - 9000)	8000 (7000 - 9000)	
Final Cut Amount (mm)	0.05 (0.05 - 0.10)	0.05 (0.05 - 0.10)	0.05 (0.05 - 0.10)	

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# CONTAFLEX

### **Centamac**°

### Material and Lathing Recommendations - 67% & 77%

LATHE FUNCTION	DAC INCHES/MINUTE	REM µ/second	
Rough Cut Amount (mm)	0.50	0.50	0.50
	(0.30 - 0.50)	(0.30 - 0.50)	(0.30 - 0.50)
Rough Feed Rate	4	1666	100
	(2 - 5)	(1250 - 2083)	(75 - 125)
Rough Spindle Speed	8000	8000	8000
	(7000 - 9000)	(7000 - 9000)	(7000 - 9000)
Rough Cut Amount (mm) (Last Pass)	0.10	0.10	0.10
	(0.10 - 0.20)	(0.10 - 0.20)	(0.10 - 0.20)
Rough Feed Rate (Last Pass)	2	833	50
	(1.5 - 2.5)	(666 - 1083)	(40 - 65)
Rough Spindle Speed (Last Pass)	8000	8000	8000
	(6500 - 9000)	(6500 - 9000)	(6500 - 9000)
Final Feed Rate	1.5	666	40
	(1 - 2)	(416 - 833)	(25 - 50)
Final Spindle Speed	7500	7500	8000
	(6500 - 9000)	(6500 - 9000)	(6500 - 9000)
Final Cut Amount (mm)	0.05	0.05	0.05
	(0.05 - 0.10)	(0.05 - 0.10)	(0.05 - 0.10)

### **Environment Control**

For best manufacturing conditions Contamac recommends 19- 23°C with a relative humidity of 45% - 60%.

### Polishing

The recommended polishing compound is Contapol 2 with a spindle speed of 3,500 rpm and weight of 240 grams. With the above machining recommendations polishing should require a maximum of 30 seconds.

### **Hydration**

Hydration of these materials is best performed in buffered saline with a pH of 6.8 - 7.5.

To ensure complete hydration of lenses manufactured from our **Methafilcon 55%** material, a two-step hydration process is required.

**Step 1:** Place the dry finished lenses in a pH 8.2 isotonic saline solution for a minimum of 15 hours, in a controlled environment at 20°C +/- 2°C.

**Step 2:** Place the hydrated lenses into a pH 7.2 isotonic saline solution and store the lenses for at least 2 hours. The lenses will now have full total hydration and will be ready for final parameter measurement.

Carbonate Buffered Saline pH 8.2 (1 litre) NaCl (Sodium Chloride) 8.00 grams NaHCO3 (Sodium Bicarbonate) 1.50 grams

Borate Buffered Saline pH 7.2 (1 litre) NaCl (Sodium Chloride) 8.00 grams H3B03 (Boric Acid) 2.47 grams Na2B407. 1 0H20 (Sodium Tetraborate decahydrate) 0.14 grams

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