

## Contaflex

### Soft Lens Material

#### Special Attributes:

Employing a novel polymerisation technique together with using the highest purity monomers produces the Contaflex range of soft contact lens materials. This results in a range of soft lens materials with water contents from 58% to 75% that exhibit zero stress and excellent machinability.

The mid to high water content materials offer a greater Dk that leads to more comfortable wearing characteristics and excellent clarity of vision. Owing to the level of water content in the 75% materials this offers opportunities in bandage and other therapeutic lens applications.

#### Material Characteristics:

Property	Contaflex 58%	Contaflex 67%	Contaflex 75%
Classification	Filcon II 1	Filcon II 2	Filcon II 2
Ionic or non-ionic	Non-Ionic	Non-Ionic	Non-Ionic
Swell Factor	1.37 at 20°C	1.49 at 20°C	1.61 at 20°C
Water Content refractometer	58% at 20°C by refractometer	67% at 20°C by refractometer	74.5% at 20°C by refractometer
Refractive Index	1.54 Dry 1.40 Hydrated	1.55 Dry 1.39 Hydrated	1.56 Dry 1.375 Hydrated
Light Transmission	>94%	>95%	>95%
Density	1.18g/cm <sup>3</sup> Dry 1.11g/cm <sup>3</sup> Hydrated	1.18g/cm <sup>3</sup> Dry 1.07g/cm <sup>3</sup> Hydrated	1.19g/cm <sup>3</sup> Dry 1.05g/cm <sup>3</sup> Hydrated
Oxygen Permeability (ISO) X10 <sup>-11</sup> (cm <sup>2</sup> /sec) [mLO <sub>2</sub> /(ml x mmHg)]	21	30	43
Tensile Strength	0.48MPa	0.36MPa	0.17MPa
Elongation to break	150%	130%	170%
Handling tints	None	None	None
UV blocker	On request	On request	On request
Diameter	12.70mm	12.70mm	12.70mm
Thickness	5.00mm	5.00mm	5.00mm

Please note: These are typical values. Always check the certificate of compliance supplied with the goods for the actual values of the batch.

Please note: Other materials may be available on request.



## Diamond Tooling:

Tooling	Radius (mm)
Rough	0.30 – 0.50mm
Fine	0.25 – 0.50mm

## Machining Recommendations:

Lathe type	RPM	Bulk cut	Fine Cut
Manual	6,000 – 9,000	0.30 – 0.50mm	0.05mm
CNC	6,500 – 9,000	0.30 – 0.50mm	0.05mm
Air Bearing	6,000 – 9,000	0.50mm	0.03 – 0.05mm

### 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 240gms. 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.

### Manufacturing Consumables

- Contapol 2 polishing Compound
- C-15 White Blocking Wax
- Kemdent Blocking Wax
- C-18B White Brushed Cotton
- C-18C Beige Microfibre Cloth

### Accessories

- Glass Vials
- Silicone Bungs
- Flip Tear Crimp Top Seals
- Horseshoe Crimp Top Seals
- Steel Hand Crimper
- Plastic Tweezers
- Shrink Wrap Sleeves

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