

Technical Data Sheet

CI18

CI21

Special Attributes:

Nature: Copolymer of hydroxyethyl methacrylate and methyl methacrylate

The CI18 and the CI21 are variations of the well known and established CI26. The specific material properties required for less conventional lens designs can be achieved through the mechanical and optical properties of these products.

Material Characteristics:

Properties	CI18	CI21
Swell Factor	1.10 at 20°C	1.11 at 20°C
Water Content	18% at 20°C	21% at 20°C
Refractive Index @ 20°C	1.471 hydrated	1.466 hydrated
Light Transmission	> 95% (400-440nm)	> 95% (400-440nm)
UV Blocker	Standard	Standard
Diameter	12.70 & 16.0mm	12.70 & 16.0mm
Thickness	3.00mm	3.00mm

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



Diamond Tooling:

Tooling	Radius (mm)
Rough	0.30mm – 50mm
Fine	0.30mm

Machining Recommendations:

Lathe type	RPM	Bulk cut	Fine Cut
Manual	7,000	0.5 – 0.7mm	0.05 – 0.10mm
CNC	7,000	0.5 – 0.7mm	0.05 – 0.10mm
Air Bearing	10,000	0.5 – 0.7mm	0.05mm

Environment Control

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

Polishing

Contamac's CI18 and CI21 materials can be polished using tumble polishing methods.

Hydration

Hydrate the finished IOL in borate buffered pH 7.2 isotonic saline or a similar buffered saline solution.

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Contamac Ltd Orchard House Bearwalden Business Park Wendens Ambo
Saffron Walden Essex CB11 4JX UK

Tel: +44 (0)1799 544400 Fax: +44 (0)1799 543000 E-mail: sales@contamac.co.uk

