

TECHNICAL DATA

CI26 is now firmly established as the leading hydrophilic material for the production of intraocular lenses.

It offers the perfect balance between superior machining characteristics, refractive index and foldability. Its mechanical properties ensure that the lens can be folded and injected easily, while allowing for a smooth and controlled unfolding. CI26 is suitable for a wide range of lens designs using an incision size as low as 1.8mm.

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

PROPERTY	CI26
Water Content at 20°C by Weight (%)	26
Swell Factor at 20°C	1.12
Refractive Index at 20°C - Dry	1.51
Refractive Index at 20°C - Hydrated	1.460
Refractive Index at 35°C - Hydrated	1.458
10% Cut-Off Wavelength (nm)	378
Blue Light Absorber	Available

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

Material and Lathing Recommendations

LATHE FUNCTION	DAC INCHES/MINUTE	REM μ/SECOND	OPTOFORM mm/MINUTE
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	3 (3 - 4)	1250 (833 - 1666)	75 (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)	1.5 (1 - 2)	666 (500 - 833)	40 (30 - 50)
Rough Spindle Speed (Last Pass)	8000 (7000 - 9000)	8000 (7000 - 9000)	8000 (7000 - 9000)
Final Feed Rate	0.60 (0.40 - 1)	250 (166 - 500)	15 (10 - 30)
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)

Environment Control

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

Polishing

Contamac's CI26 material 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.