

Technical Data Sheet

OPTIMUM^{HR}

Special Attributes:

Optimum HR is a new category of GP materials that offer a unique balance of properties resulting in a high index material that meets all the demands of the full range of presbyopia. The HR materials offer the highest index of refraction in the industry, favourable levels of oxygen permeability and high stability, all to offer lens manufacturers new opportunities to produce novel lens designs. Optimum HR is FDA approved for a full range of indications such as myopia, hyperopia, astigmatism and aphakia and also has FDA approval for the enhancement of surface wettability through the use of plasma treatment, this is highly recommended to ensure best on-eye results.

Material Characteristics:

Property	Optimum HR 1.51	Optimum HR 1.53
Classification	Focon III 3	Focon III 2
USAN	Hirafocon A	Hirafocon B
Receding contact angle (DCA)	33	42
Light Transmission	>94%	>93%
Permeability (ISO) $\times 10^{-11}(\text{cm}^2/\text{sec})$ (mlO_2)/($\text{ml} \times \text{mmHg}$)	50	26
Refractive Index	1.51	1.53
Shore D hardness	79	82
Specific Gravity	1.04	1.04
Handling tints	Blue	Blue
UV Blocker	On request	N/A
Diameter	12.70mm	12.70mm
Thickness	4.70mm	4.70mm
Polishing compound	Contapol 3	Contapol 3
Blocking wax	Low melt	Low Melt
Cutting speed	7,000-9,000 RPM	7,000 – 9,000 RPM
Polishing speed	3,500 RPM	3,500 RPM

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



Manufacturing Consumables:

- Contapol 3 Polishing Compound
- Black Low Melt Wax
- C-18c Beige Microfibre Polishing Cloth
- C-18d Polishing Silk
- Contasolve De-Blocking Solvent

Accessories:

- Optimum GP Lens Case
- GP151 Double Opticase Blue/White
- GP Double Mailers
- GP152 Tamper Evident Vial
- Rubber Suckers

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