Specify optical lenses with the evidence attached.

A practical purchasing pack for distributors, optical laboratories and eyewear brands. Use it to compare lens families, prepare an RFQ, review samples and separate material properties from finished-product claims.



10	Finished + SF	100 pairs	FOB Shanghai
lens families	separate specifications	typical mixed-order reference	confirmed in quotation

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PRODUCT SELECTION MAP

Find the lens family that matches the buying job.

The material index alone does not define product performance. Choose the family using the use case, power distribution, frame, finished or semi-finished format and evidence requirement.

Family	Usual buying role	Main specification	Boundary to confirm
1.499 CR39	Cost-led everyday single vision	SPH +6.00 to -6.00; CYL -0.25 to -4.00	Actual material designation, diameter, coating, finished format
1.56 resin	Mainstream single vision	SPH +6.00 to -8.00; CYL -0.25 to -4.00	Supplier material designation and TDS; functional variants separate
1.60 MR-8	Balanced thin-and-light material	SPH +6.00 to -8.00; CYL -0.25 to -4.00	Impact-oriented material does not equal a finished-lens certification
1.67 MR-7	Thinner moderate/high Rx	SPH +6.00 to -14.00; combined limit	Exact power limits, finished/SF route and representative test scope
1.71 MR-174	Premium thin-lens program	SPH +6.00 to -14.00; subject to SKU	Material TDS, final power limit, diameter and coating
Progressive	Distance-to-near correction	ADD +0.50 to +3.50; corridor options	Design, corridor, fitting height, finished or lab-order route
Round / flat top	Separate near-segment bifocal	ADD reference +0.50 to +3.50	Segment shape, blank geometry and no progressive corridor
1.591 PC	Impact-oriented material use	Plus 60/65 mm; minus 70/72 mm reference	Finished-lens test scope and application requirement
1.56 RX polar	Prescription/lab polarized	SPH +6.00 to -8.00; CYL -0.25 to -2.00	TAC polarizing layer, color, VLT, diameter and SF route
1.49 stock polar	Plano sunglass stock	Diameter and base curve by stock item	Color, finished-lens VLT and target-market requirement

The ranges are planning references. Stock depth, available coating, diameter, representative testing and price are confirmed for the requested product and order.

RFQ AND FINISHED / SF DECISION

Send a brief the supplier can quote without guessing.

RFQ fields

Product family and material

Finished lens or semi-finished blank

SPH / CYL / ADD distribution

Diameter, base curve and thickness for blanks

Coating, tint, color and target performance

First order, annual volume and packing

Destination, port, Incoterm and target date

Required TDS, report or market-access evidence

Finished vs Semi-Finished

Finished lens: completed to the agreed lens scope and treatment.

Semi-finished blank: supplied for downstream laboratory processing. Define material, design, base curve, diameter, thickness and ADD.

Evidence: a report covering one format should not be assumed to cover the other.

Useful first message: product family, pictured or written sample reference, power distribution, estimated volume and destination.

Sample review protocol

01	**Approve the product and format**	Record the product family, material, design and finished or semi-finished route.
02	**Record the technical values**	Power, cylinder, ADD, diameter, base curve, thickness and coating.
03	**Inspect the surface**	Check under controlled light for visible defects, coating condition and edge quality.
04	**Check the treatment**	Match tint, color, reflective appearance and hydrophobic behavior to the approved reference.
05	**Check packing**	Confirm quantity, label, box, carton marks and private-label instruction.
06	**Keep the approved record**	Use the sample and signed specification as the repeat-order reference.

EVIDENCE AND CLAIM BOUNDARIES

Know what each document proves before publishing a claim.

Evidence	What it can support	What it does not automatically prove
Business license	Legal identity and registered scope	Product performance or certification status
ISO 9001	A management system within the stated holder, site and scope	Individual lens performance, CE, FDA or medical-device approval
Material TDS / COA	Material grade and stated material properties	Finished-lens compliance at every power or coating
Finished-lens test report	The exact tested design, format, sample and scope	Other materials, designs, coatings or semi-finished blanks
Semi-finished evidence	The defined blank specification	Downstream processed finished-lens performance

Claims protocol

• Use the legal company and production address in the same form across the website, quotation and evidence.

• State the certificate holder, site, scope and validity rather than writing only “certified”.

• Describe material properties separately from finished-lens test conclusions.

• Keep the representative test specification and its limitation next to the relevant product claim.

• Do not translate a supplier certificate or another company's document into a ShenHai-owned credential.

• Treat CE, FDA, ISO 13485 and local medical-device routes as separate assessments after the market and product class are fixed.

Start a technical RFQ

Send the product family, format, power distribution, diameter or base curve, coating, packing, quantity and destination. We will confirm the stock or production route and state the documents available for that specification.

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