SHENHAI
OPTICAL

TECHNICAL DATA SHEET
TDS-171 · REVISION 2026-11
DANYANG SHENHAI METAL MATERIALS TECHNOLOGY CO., LTD.

1.71 MR-174 High-Index Lens

Premium thin-lens platform for high minus powers where weight and edge thickness matter.

REFRACTIVE INDEX	MATERIAL	DESIGN	FORMAT
1.71	MR-174	Aspheric single vision	Finished lens; laboratory-order routes quoted separately

Specification

REFRACTIVE INDEX	1.71
MATERIAL	MR-174
DESIGN	Aspheric single vision
SPHERE (SPH) REFERENCE	+6.00 to −14.00 (combined SPH + CYL limited to −14.00)
CYLINDER (CYL) REFERENCE	−0.25 to −2.00 and −2.25 to −4.00
DIAMETER	Confirmed by power; 65/70/75 mm common
BASE CURVE	Confirmed by power and design
COATING OPTIONS	AR (anti-reflective), anti-radiation, super-hydrophobic, inner coating, wear-resistant and HC hard coat, confirmed per SKU.
COLOUR / APPEARANCE	Clear; blue or green coating appearance
FINISHED / SEMI-FINISHED	Finished lens; laboratory-order routes quoted separately

INDEPENDENT TEST EVIDENCE

Report 5003 · issued by CNAS-accredited laboratory

ISO 8980-5:2005 · 8 samples · 0.00/−4.00/−6.00/−8.00D · issued 2026-11-11. Covers abrasion resistance of the tested coated surfaces.

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SPECIFICATION NOTES

Power ranges are planning references taken from the current product file. The exact range, diameter, base curve and coating are confirmed in the quotation for the ordered SKU. Extreme powers and combined SPH + CYL limits require written confirmation. Finished and semi-finished formats are quoted separately.

COMMERCIAL TERMS AND ORDERING

What to send with your RFQ

Product brief

- Product family and index
- Finished lens or semi-finished blank
- SPH / CYL / ADD range and Rx distribution
- Diameter or base curve
- Coating, tint or colour
- Annual volume and order pattern

Delivery brief

- Destination country and port
- Packaging: white pack, private label, carton marks
- Sample requirement and freight account
- Target date and Incoterm
- Documents required for import or tender
- Any customer-specific test or label rule

Commercial terms

MOQ	100 pairs per mixed order. Individual stocked powers commonly require about 50 pairs; availability is confirmed before order acceptance.
SAMPLES	5–10 pairs free of product charge. The buyer pays freight or supplies a freight-collect account.
LEAD TIME	White-pack stock: typically 2–5 business days. Custom colour pack or private label: typically 15–20 days. Production: 5–20 days by specification.
PACKAGING	Standard white pack. Private label, anti-counterfeit marking, labels, envelopes and carton marks can be quoted.
INCOTERM	FOB Shanghai. Seller handles export clearance; buyer handles import clearance, duty and taxes.

Quality checkpoints

Incoming and in-process

- Monomer and material batch records
- Mould cleaning, filling and curing control
- Trimming, edging and surface inspection
- Coating process and supplier scope confirmed

Final and dispatch

- Optical power and surface inspection
- Coating and cosmetic check
- Label, packing and carton verification
- Batch and order traceability

Document control

This data sheet is a commercial summary, not a certificate. Product test reports are published separately at **shenhaioptic.com/test-reports/**. ISO 9001 implementation is in progress and no certificate is claimed. CE, FDA and local registration are assessed per destination and are not claimed on this document.

Request a quotation · shenhaioptic.com/request-a-quote/
Send the product brief and delivery brief above; we will confirm the exact specification, test scope and price.
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