



PRODUCT CATALOGUE 2026 · CUSTOM PARTS & STANDARD RANGE

Made to your drawing — or chosen from our range.

Custom rubber parts in six base polymers — formulated, tooled, moulded and extruded under one roof. And a standard range of O-ring kits, hydraulic seals, PTFE seals and couplings. Delivered across India.



POLYMERS

6 base

PROCESS

**Mould +
extrude**

RANGE

**Custom +
standard**

SUPPLY

All-India

WHO WE ARE

Custom parts: the whole chain, under our own roof.

Exonel Industries is a specialist rubber manufacturer. Every step that decides whether a custom part performs — formulation, tooling and production — happens in-house at our works in Howrah, Kolkata.

That control is how we hold tolerance, repeatability and lead time on the parts others find hard to source. Alongside custom parts, our standard range covers O-ring kits, hydraulic seals, PTFE seals, couplings and bellows — every item checked before despatch.

IMPORT SUBSTITUTION

Replacing an imported part? Send the sample — we match the compound, tool it locally and sample it before you commit.

AT A GLANCE

Based in	Howrah, Kolkata (W.B.)
Model	Custom parts: in-house, end-to-end
We make	To your drawing or sample
Materials	6 base polymers
Compounds	Hundreds, grade-matched
Standard range	O-ring kits, hydraulic seals, PTFE seals, couplings
Supply	All-India despatch

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CUSTOM PARTS — THE CHAIN, IN ORDER

01 / DESIGN Engineer to spec Duty, section and grade decided with you.	02 / COMPOUND Mix the rubber Our own recipe, mixed in-house.	03 / TOOL Cut the die Moulds and extrusion dies made to drawing.	04 / PRODUCE Mould & extrude Cured, inspected and despatched to schedule.
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THE MATERIAL RANGE

Six base polymers, hundreds of compounds.

Silicone is our specialism — but we mould and extrude across the full range, formulating each polymer into the exact compound your part needs.

01 • Silicone (VMQ)

-60 → +225°C

Our core material — moulded and extruded. The widest temperature window of any common elastomer.

RESISTS

Heat, cold, UV, ozone, weather; electrical insulation. Food-contact and medical-application grades can be compounded on request. Certification, where required, is arranged by the customer.

TYPICAL USE

Lighting & LED seals, food/pharma, electrical insulation, oven & steam gaskets.

02 • EPDM

-45 → +150°C

Built for the outdoors — outstanding weather, ozone, steam and hot-water resistance.

RESISTS

Weather, ozone, steam, hot water, ageing. Poor in oil & fuel.

TYPICAL USE

Radiator hoses, washing-machine seals, outdoor enclosure & roofing gaskets.

03 • FKM (Viton-type)

-20 → +200°C

The high-performance choice where heat and aggressive media meet.

RESISTS

High heat, oils, fuels, solvents, acids & oxidisers. Stiffer in cold.

TYPICAL USE

Fuel-system seals, chemical plant, high-temp automotive & aerospace.

04 • NBR (Nitrile)

-40 → +120°C

The industrial workhorse for oil and fuel sealing at moderate temperatures.

RESISTS

Mineral oils, fuels, abrasion; low gas permeability. Poor ozone/UV.

TYPICAL USE

Hydraulic & pneumatic seals, fuel gaskets, oil-contact pads & bushes.

05 • Neoprene (CR)

-40 → +120°C

A balanced all-rounder with a useful turn of flame and refrigerant resistance.

RESISTS

Weather, ozone, refrigerants, moderate oil & flame; tough mechanically.

TYPICAL USE

Refrigeration & HVAC seals, marine parts, chemical-resistant hoses.

06 • SBR

-50 → +100°C

Cost-effective general-purpose rubber where wear matters more than chemistry.

RESISTS

Abrasion & impact; good mechanical wear. Poor oil & weather.

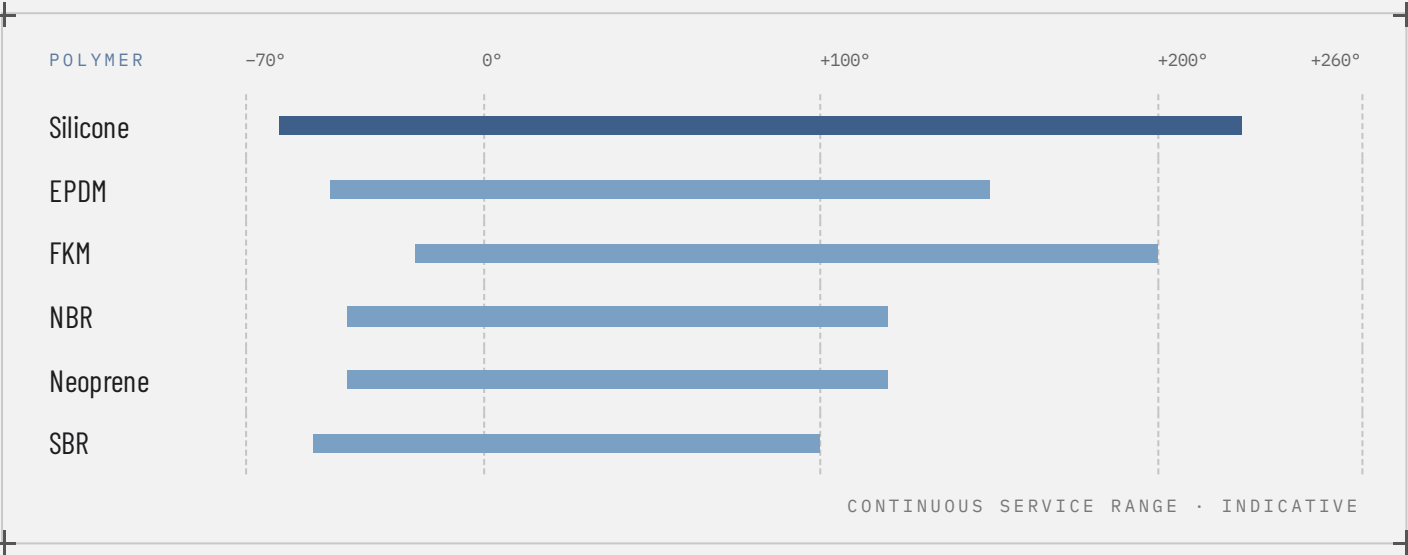
TYPICAL USE

Bumpers, pads, mounts and non-sealing parts in protected housings.

SELECTION AT A GLANCE

Compare the range.

Working temperature window for each polymer. Not sure which fits? Send us the duty and we'll recommend the grade.



CHOOSE BY DUTY

DUTY	POLYMER	WHY	TYPICAL PARTS
High heat + weather	Silicone / EPDM	Silicone holds to +225°C and shrugs off UV and ozone; EPDM adds steam and hot water at lower cost.	Oven & lighting gaskets, outdoor enclosure seals
Oil & fuel contact	NBR / FKM	NBR is the standard for oils, fuels and hydraulic fluids; step up to FKM when heat is added.	Hydraulic seals, fuel gaskets, oil-contact pads
Outdoor & ozone	EPDM	A saturated backbone resists UV, ozone and weathering — what cracks most other rubbers.	Weatherstrip, roofing, junction-box seals
Aggressive chemicals	FKM	Carbon-fluorine withstands fuels, oxidisers, solvents and many acids.	Chemical-plant seals, solvent lines, hot-oil O-rings
General purpose	Neoprene / SBR	Neoprene balances weather, flame and some oil; SBR is low-cost abrasion resistance.	Pads, bumpers, mounts, general gaskets

NOT SURE?

Send the duty — temperature, media, movement and expected life — and we'll match the polymer, grade and section, then sample it before you commit.

CUSTOM PARTS • MOULDED

Seals, gaskets & moulded parts.

Three-dimensional components cured to your drawing – fine detail, tight tolerances, repeatable part after part.

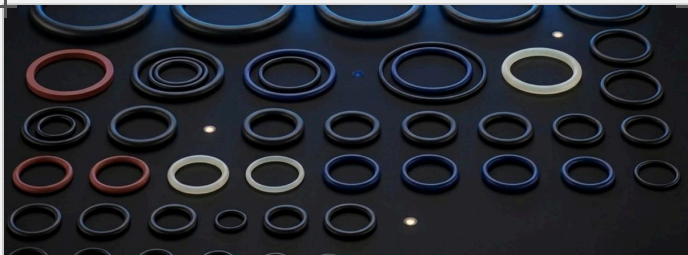


01 • MOULDED

Gaskets & seals

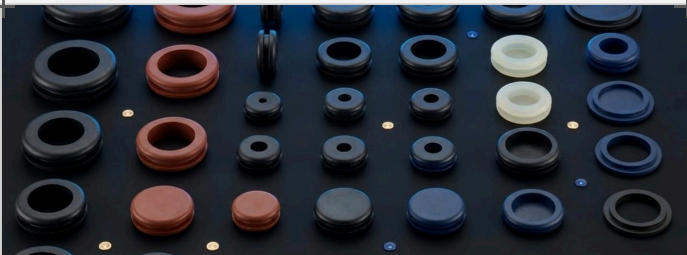
Flat and profiled gaskets and complex-geometry seals for flanges, covers and enclosures – built for pressure and temperature cycling.

Rubber-to-metal bonded units available: elastomer chemically bonded to steel, brass or aluminium.



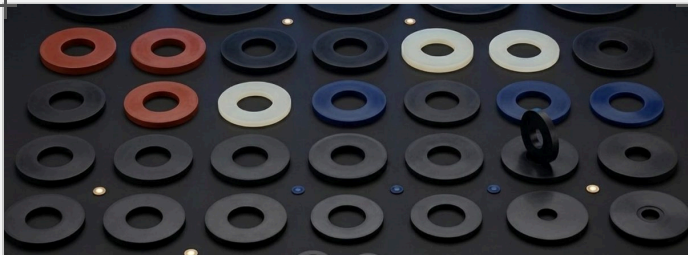
O-rings

Round-section sealing rings in any ID – static and dynamic, standard or bespoke.



Rubber grommets

Cable and panel grommets designed for IP67/IP68 sealing applications.



Rubber washers

Flat and shouldered washers for sealing, spacing, insulation and load spread.



Bushes & AV pads

Moulded bushes, mounts and pads that damp shock and noise.

MATERIALS

All six polymers

HARDNESS

20–90 Shore A

BONDING

Rubber-to-metal

PRICING ON REQUEST

CUSTOM PARTS · EXTRUDED & CUSTOM

Profiles, tubing, sponge & custom parts.

Continuous cross-sections in solid or sponge — cut to length, spliced into rings, or joined to suit your assembly.



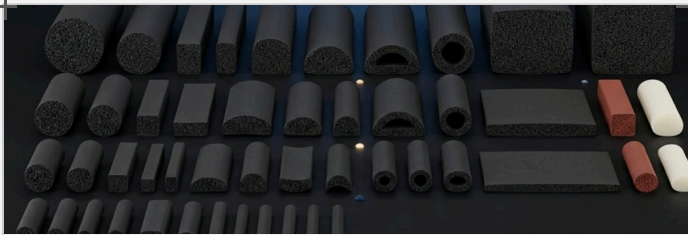
Profiles & channels

Custom cross-sections and edge-grip channels — any length, constant section.



Silicone tubing

Hollow-bore silicone tube for fluid, air and protective sleeving.



Silicone foam / EPDM sponge

Soft closed-cell sponge and foam profiles for low-force sealing.



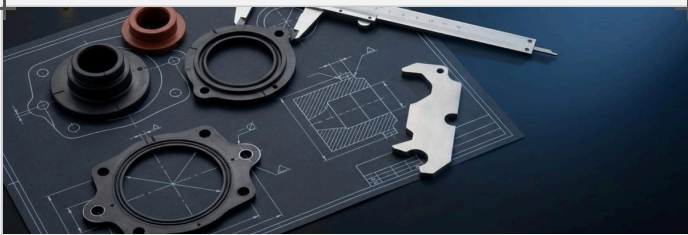
Joined gaskets & seals

Extruded profile vulcanised-joined into endless frames, rings and gaskets.



Silicone strips & cords

Solid strips, cords and tapes — sealing, masking and gasketing by the metre.



Customised components

Send a drawing or sample — we compound, tool and make the part.

STANDARD SECTION FAMILIES



CORD



TUBE



STRIP



U-CHANNEL



D-SECTION



P-SECTION

SOLID & SPONGE · CONTINUOUS LENGTHS · SPLICED CORNERS & VULCANISED RINGS · BESPOKE DIES TO DRAWING

Moulding vs extrusion.

Moulding

COMPRESSION

An uncured blank is shaped and vulcanised inside a heated steel tool under pressure — the route to 3D parts with fine detail and close tolerances.

WHERE IT WINS

3D shaped parts with undercuts, crisp edges and repeatable detail

Metal inserts bonded in during cure for mounts, bushes and shafts

Single- or multi-cavity tooling scales from prototype to volume

Hardness	20-90 Shore A
Tolerance	From ±0.5 mm
Tooling	Single / multi-cavity
Best for	3D shaped parts

Extrusion

PROFILE · CONTINUOUS

Compound is forced through a shaped die into a continuous profile, then vulcanised and cut to length — ideal for long, uniform cross-sections.

WHERE IT WINS

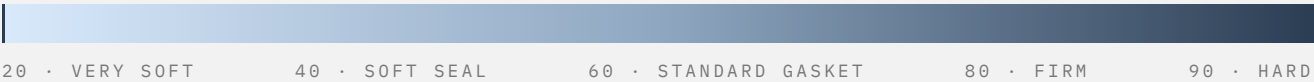
Uniform cross-section down the whole length, metre after metre

Solid or sponge — cut to length or vulcanised into endless rings

Self-adhesive backing and spliced corners for ready-to-fit seals

Sections	Solid & sponge
Profiles	Cord · tube · U · D · P
Lengths	Continuous, cut to size
Best for	Sealing runs

HARDNESS REFERENCE — SHORE A



NOT SURE WHICH ROUTE

Send the part or the drawing. We'll tell you whether it should be moulded or extruded — and what that means for tooling cost and lead time.

CUSTOM PARTS · SPECIFICATION

The numbers a buyer asks for.

One sheet for vendor evaluation. Figures are typical; we confirm each against your part at quotation.

PROCESS ENVELOPE

Processes	Compression moulding, die extrusion, vulcanised joining
Hardness range	20-90 Shore A
Moulding tolerance	From ±0.5 mm
Colour	To sample or shade card
Finishes	Self-adhesive backing, bonded inserts, spliced corners
Marking	Cavity / part identification on request

COMMERCIAL TERMS

Order type	Made to order, to drawing or sample
Minimum quantity	Low volumes and samples welcome
Tooling	Made in-house; one-time charge, retained for repeats
Sampling	First-off sample approved before production
Despatch	All-India, by road and rail freight
Documentation	Tax invoice, packing list, test report on request

INDICATIVE LEAD TIME

Confirmed per enquiry – ask for dates with your quotation.

STAGE 01 Quotation On receipt of drawing or sample	STAGE 02 Tooling Cut in-house after approval	STAGE 03 Sample First-off for your sign-off	STAGE 04 Production To your delivery schedule
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REPEAT SUPPLY

Tooling stays with us and the compound is on record, so a repeat order runs to the same recipe, the same hardness and the same section – no re-development.

CUSTOM PARTS · QUALITY

Checked in-house, at every stage.

Because we compound, tool and cure under one roof, a fault is caught where it starts – in the mix, not in your assembly line.

WHAT WE CHECK

CHECK	ON WHAT
Hardness(Shore A)	Every compound batch
Dimensions to drawing	First-off and in-process
Section & wall thickness	Extruded profiles and tube
Cure / state of vulcanisation	Batch test piece
Visual & surface finish	100% of moulded parts
Joint integrity	Vulcanised-joined rings

TRACEABILITY & RECORDS

Compound recipe held on record against your part number
Batch identification kept with despatch documents
Approved first-off sample retained as the production reference
Test report issued with the consignment on request
Third-party testing arranged where your specification calls for it

STAGE 01 Incoming material Polymer, filler and curative checked against specification and batch record before mixing.	STAGE 02 Compound & cure Every batch mixed to a recorded recipe; hardness and cure confirmed on a test piece before the run.	STAGE 03 Finished part Dimensional and visual inspection to the approved first-off sample before packing.
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WORKING TO YOUR SPECIFICATION

If your part carries a standard, a compliance requirement or an inspection plan, send it with the enquiry – we'll confirm in writing what we can meet before you raise the order.

STANDARD RANGE

Standard seals, kits and couplings.

Order by size, code or machine. Rubber items in NBR, silicone or FKM (Viton-type), to your requirement. Every item checked before despatch.

SEALING O-ring kits and boxes · hydraulic seals · PU and PTFE seals · earthmoving seal kits and spare parts	TRANSMISSION & PROTECTION Star, diaphragm, engine and gasket-type couplings · rubber bellows
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STANDARD RANGE · SEALING · O-RINGS

O-ring kits and boxes.

Boxed assortments of standard-size O-rings for maintenance stores and service teams. For a size outside the box, or a bespoke compound, see custom O-rings on [page 05](#).



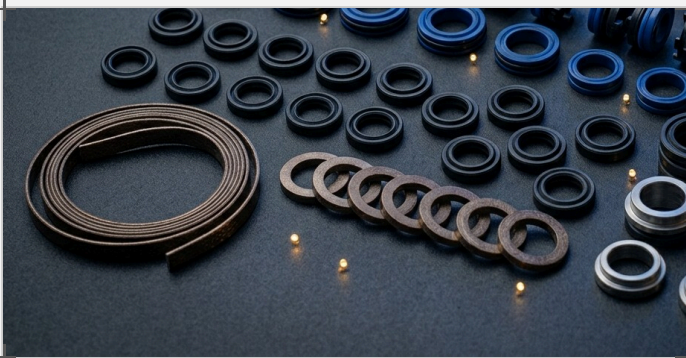
NBR O-ring box Assorted standard sizes in nitrile, for oil, fuel and hydraulic circuits.	FKM O-ring box Assorted standard sizes in FKM, for heat and aggressive fluids.
JIS-series O-ring box Japanese-standard sizes to JIS B 2401.	Machine O-ring kits Pre-counted O-ring sets by machine and application. See earthmoving seal kits, page 12.

BOX CONTENTS AND SIZE LISTS ON REQUEST.

STANDARD RANGE · SEALING · HYDRAULICS

Hydraulic cylinder seals.

Piston, rod, wiper and guide seals for hydraulic cylinders — in rubber, PU and PTFE.



Piston seals

Seal across the piston to hold cylinder pressure. Common types incl. SPGW and SPGO.

Rod seals

Stop fluid escaping where the rod leaves the cylinder.

Wiper and dust seals

Scrape dirt and water off the rod before it retracts. PU and metal-cased (DKBI-type).

Guide rings

Keep piston and rod centred in the bore and stop metal-to-metal contact.

Guide strips (soft belts)

Bronze-filled PTFE strip, cut to length to form guide rings. Also called BFT or BLF strip.

V-packing sets

Multi-lip V-type packing sets for heavy-duty hydraulics.

POLYURETHANE (PU)



PU O-rings

Polyurethane O-rings for abrasion-heavy duty.

PU wipers

Hard-wearing polyurethane rod wipers.

PU bucket seals

Polyurethane bucket seals, profile to your requirement.

SIZES, PROFILES AND MATERIALS ON REQUEST. SEND THE OLD SEAL OR ITS CODE.

STANDARD RANGE · SEALING · EARTHMOVING

Earthmoving seal kits & spare parts.

Seal kits for backhoe loaders, excavators and hydraulic pumps – plus earthmoving spare parts.



SEAL KITS

Cylinder seal kits Seal kits for earthmoving hydraulic cylinders.	Hydraulic pump seal kits Seals and O-rings for hydraulic pump overhaul.	O-ring kit Suitable for JCB 3DX. Pre-counted O-rings, 5 of each size.
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SPARE PARTS

Planetary hub / rear hub Suitable for JCB 3DX.	Charging pump Suitable for JCB.	Pump flange Suitable for JCB 3DX.	Spool rod Size on request.
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FITMENT

Machine names are for fitment reference only. Tell us the machine, model and assembly – or send the old part.

STANDARD RANGE • PTFE • TRANSMISSION & PROTECTION

PTFE seals, couplings and bellows.

PTFE where rubber reaches its limit. Rubber couplings and bellows for drives and moving parts.

PTFE SEALS



PTFE backup rings

Fit beside an O-ring on the low-pressure side and stop it extruding under high pressure.

PTFE O-rings

Rigid, low-friction rings for chemicals and heat.

PTFE washer seals

Flat PTFE washers for chemical-contact joints.

PTFE gaskets

Chemical-resistant flat gaskets for flanges and covers.

COUPLINGS & BELLOWS



Star couplings

Star-shaped elastomer insert between two jaw hubs. Carries torque, absorbs shock, takes up small misalignment.

Diaphragm and engine couplings

Rubber diaphragm couplings that damp vibration in engine drives – compressors, DG sets and pumps.

Borewell compressor couplings

Star and diaphragm types for borewell compressor drives.

Gasket-type rubber couplings

Type and size on request.

Rubber bellows

Flexible covers that keep dust, dirt and moisture off cylinder rods and moving joints.

SIZES, BORES AND MATERIALS ON REQUEST.

INDUSTRIES WE SERVE

Made for your industry.

Eleven sectors and many more – custom parts made to drawing, standard range by size or machine.

SECTOR	WHAT WE SUPPLY	USUAL MATERIAL
Electrical	Enclosure seals, gaskets, cable grommets	Silicone, EPDM, Neoprene
Lighting	Weatherproof gaskets for LED fittings	Silicone
Switchgear	Insulating moulded and extruded parts	Silicone, EPDM
Industrial OEMs	Made-to-drawing components, built to spec	All six polymers
Dehumidifiers & HVAC	Sealing gaskets, drain seals, AV pads	EPDM, Neoprene
Automotive & EV	Seals, grommets and mounts for assemblies	NBR, EPDM, FKM
Batteries	Vent seals, terminal gaskets, enclosure seals	Silicone, EPDM
Renewable & solar	Gaskets for junction boxes and inverters	Silicone, EPDM
Earthmoving & construction	Seal kits, cylinder seals, O-ring kits, spare parts	Standard range
Hydraulics & fluid power	Piston, rod and wiper seals, V-packing, backup rings	Standard range
Pumps, compressors & DG sets	Couplings, PTFE seals	Standard range

THE PARTNERSHIP – TWO PARTNERS, DECADES EACH

Exonel is a new firm built on long experience: one founder in rubber design and manufacturing, the other in finance and operations.

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Abhishek Jain

FOUNDING PARTNER • DESIGN & MANUFACTURING

20+ years as a rubber technologist. Designs, prototypes and manufactures moulded and extruded components, including rubber-to-metal bonded parts, in Silicone, EPDM, FKM, NBR, Neoprene and SBR. Formulates the compound to the hardness, temperature and chemical resistance the application needs, and designs for manufacture before a tool is cut.

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Rahul Sharma

FOUNDING PARTNER • FINANCE, SALES & OPERATIONS

20+ years in business strategy, growth and corporate finance. At Exonel he runs sales and operations: new accounts, key accounts, and the commercial discipline behind every quote and commitment.

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HOW TO ORDER

Send a drawing — or just the problem.

No drawing yet? Tell us what the part has to do and the conditions it works in. We'll recommend the polymer and section, then quote.

CUSTOM PARTS — USEFUL TO INCLUDE WITH YOUR ENQUIRY

Part drawing or sample, if you have one

Media in contact (oil, water, chemicals)

Approximate annual quantity

Delivery location & schedule

Working temperature & environment

Hardness or sealing force, if known

Any compliance needs (food, flame)

Existing part number or vendor code

01**Tell us the part**

Send a drawing, a sample, or just describe what it has to seal, mount or insulate.

02**We recommend**

We match the polymer, grade and section to your duty — and flag anything worth changing.

03**Sample & approve**

We tool up, run a sample and confirm fit, hardness and finish with you before production.

04**Produce & supply**

We compound, mould or extrude, and despatch to schedule — anywhere in India.

STANDARD RANGE

Ordering from the standard range? Send the size, code, machine model or the old part.

SAMPLES & LOW VOLUMES WELCOME

Send your enquiry to email@exonel.in or WhatsApp **+91 62914 24970**.

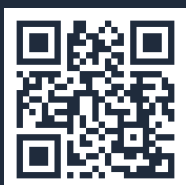
Request a quotation →

We make the part that's hard to source.

Match the polymer, compound the rubber, cut the tooling, make the part. Or order seals, kits and couplings from the standard range. Anywhere in India.

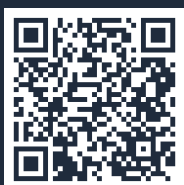
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SCAN TO CONNECT



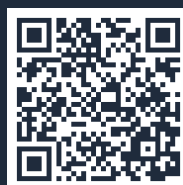
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