

| BARRIER POUCH RANGE

BARRIXATM **POUCH** **RANGE**

Ten engineered pouch constructions — built on BARRIXATM high-barrier laminates to protect aroma, moisture and shelf life across food, nutraceutical and pharmaceutical applications.

01 Retort Pouch

03 Stand-up Pouch

05 Quad Seal Pouch

07 Centre Seal Pouch

09 Metallised Window Pouch

02 Side Gusset Pouch

04 Spout Pouch

06 3-Side Seal Pouch

08 Zipper Pouch

10 Vacuum Pouch

ONE PLATFORM · FOUR TIERS

BARRIER GRADES

Choose the BARRIXA™ grade that matches your product's shelf-life need

Every BARRIXA™ pouch in this range is built on one of four barrier tiers. **ULTRA** delivers near-foil protection as a cost-effective aluminium-foil replacement; **SMART** offers an economical entry barrier for fast-moving lines – with **PRIME** and **PRO** in between. Select by the oxygen and moisture sensitivity of your product.

GRADE	OTR cc/m ² /day	WVTR g/m ² /day	THICKNESS micron	POSITIONING
BARRIXA™ ULTRA	< 0.08	< 0.05	55 – 200	Absolute barrier – direct aluminium-foil replacement
BARRIXA™ PRIME	< 0.1	< 0.1	55 – 200	High barrier – long shelf-life foods & nutraceuticals
BARRIXA™ PRO	< 0.2	< 0.2	55 – 200	Mid barrier – everyday retail, snacks & dry foods
BARRIXA™ SMART	< 0.5	< 1.2-5	45 – 200	Entry barrier – cost-optimised, fast-moving lines



Note: OTR / WVTR are maximum barrier values (cc or g per m² per day). Thickness, fill and pack size are built to customer requirement. Exact spec is confirmed per structure and batch COA.

Disclaimer – OTR & WVTR are measurement values, not guaranteed values. Results may vary due to: (1) film lot-to-lot variation (OTR/WVTR ±10–20%); (2) seal integrity – up to 80% of real-world failures originate from seal defects, not film permeability; (3) actual storage & transit conditions; (4) pack size & surface area (10 g vs 1 kg packs); (5) product formulation & water activity (a_w) – packaging cannot compensate for inherently high-moisture or high-a_w products where microbial or enzymatic spoilage is driven by formulation, not film permeability.

HIGH-BARRIER · HEAT STERILISABLE

RETORT POUCH

Shelf-stable ready meals – a flexible replacement for cans & jars



STAND-UP RETORT

The **retort pouch** withstands full thermal sterilisation, letting wet, oily and particulate foods be cooked and preserved inside the pack for ambient, shelf-stable distribution. It is offered in a **foil** construction for total barrier, or a **transparent** construction that stays retort-stable up to **135 °C for 30 minutes** while showing the product – with the light weight and shelf appeal of a flexible pouch.

RECOMMENDED GRADES

BARRIXA™ ULTRA

BEST FOR

Ready meals · curries & gravies · dals · pastes · seafood · pet food and other thermally processed wet foods requiring ambient shelf life.

KEY FEATURES

- Foil & transparent constructions available
- Transparent retort stable up to 135 °C for 30 min
- Total light, oxygen & moisture barrier (foil)
- Lay-flat or stand-up format with bottom gusset
- Tear-notch / easy-open & round-corner options

SPECIFICATION

OTR / WVTR are maximum values (cc or g per m²/day), grade-dependent · thickness, fill & size build-to-order

Recommended BARRIXA™ grade	ULTRA	Max retort temp	135 °C · 30 min
OTR (cc/m ² /day)	< 0.08	WVTR (g/m ² /day)	< 0.05
Total thickness (µm)	55 – 200	Barrier class	Absolute barrier
Filling range	As per customer requirement	Format & size	As per customer requirement

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HIGH VOLUME · AROMA RETENTION

SIDE GUSSET POUCH

The classic coffee & bulk-fill bag with folded side panels



SIDE GUSSET · SQUARE BOTTOM

A tall, high-capacity bag with **folded gussets on both sides** and a back or fin seal, expanding to a square cross-section when filled. It maximises fill volume per footprint and presents a clean front panel for branding – the established choice for whole-bean coffee and bulk dry goods.

RECOMMENDED GRADES

BARRIXA™ ULTRA

BARRIXA™ PRIME

BEST FOR

Coffee beans & ground coffee · tea · spices · flours & grains · snacks · pet food in 250 g to 5 kg fills.

KEY FEATURES

- High fill volume with stable square footprint
- Optional one-way degassing valve for coffee
- Tin-tie, handle, zipper or fin-seal closure options
- Large flat front/back panels for shelf branding

SPECIFICATION

OTR / WVTR are maximum values (cc or g per m²/day), grade-dependent · thickness, fill & size build-to-order

Recommended BARRIXA™ grade	PRIME / ULTRA	Closure options	Valve · Tin-tie · Handle · Zipper
OTR (cc/m ² /day)	< 0.08 – 0.1	WVTR (g/m ² /day)	< 0.05 – 0.1
Total thickness (µm)	55 – 200	Barrier class	Absolute barrier
Filling range	As per customer requirement	Format & size	As per customer requirement

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RETAIL-READY · SHELF STANDOUT

STAND-UP POUCH

The versatile Doypack — stands upright with a bottom gusset



STAND-UP · DOYPACK

The **stand-up pouch (SUP / Doypack)** uses a folded **bottom gusset** that opens out so the pack stands unaided on shelf. It is the most versatile retail format — strong vertical branding, efficient material use, and easy compatibility with zippers, spouts, valves and tear-notches.

RECOMMENDED GRADES

BARRIXA™ ULTRA

BARRIXA™ PRIME

BARRIXA™ PRO

BARRIXA™ SMART

BEST FOR

Snacks & namkeen · dry fruits & nuts · granola · powders · millet products · nutraceuticals · pet treats.

KEY FEATURES

- Self-standing shelf presence with premium feel
- Add-on ready: zipper, spout, valve, euro-hole, tear-notch
- Wide barrier range from clear to full foil
- Efficient material-to-volume ratio

SPECIFICATION

OTR / WVTR are maximum values (cc or g per m²/day), grade-dependent · thickness, fill & size build-to-order

Recommended BARRIXA™ grade	SMART / PRO / PRIME / ULTRA	Add-on options	Zipper · Spout · Valve · Euro-hole
OTR (cc/m ² /day)	< 0.08 – 0.5	WVTR (g/m ² /day)	< 0.05 – 5
Total thickness (µm)	45 – 200	Barrier class	Absolute barrier
Filling range	As per customer requirement	Format & size	As per customer requirement

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LIQUIDS · PUREES · ON-THE-GO

SPOUT POUCH

Stand-up pouch with a fitment & cap for pourable products



A stand-up pouch fitted with a moulded **spout and screw cap** for controlled pouring, drinking or dispensing. It pairs flexible-pack economics with rigid-pack convenience and reseal – ideal for single-hand, on-the-go consumption and refill formats.

RECOMMENDED GRADES

BARRIXA™ ULTRA

BARRIXA™ PRIME

BEST FOR

Juices & beverages · fruit purees · baby food · sauces & ketchup · edible oils · liquid soaps & sanitiser · lubricants.

KEY FEATURES

- Centre-top or corner spout with reclosable cap
- Tamper-evident and child-resistant cap options
- Retort-grade spout available for hot-fill / sterilised liquids
- Mess-free pour, squeeze and refill

SPECIFICATION

OTR / WVTR are maximum values (cc or g per m²/day), grade-dependent · thickness, fill & size build-to-order

Recommended BARRIXA™ grade	PRIME / ULTRA	Spout position	Centre-top · Corner
OTR (cc/m ² /day)	< 0.08 – 0.1	WVTR (g/m ² /day)	< 0.05 – 0.1
Total thickness (µm)	55 – 200	Barrier class	Absolute barrier
Filling range	As per customer requirement	Format & size	As per customer requirement

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PREMIUM · FIVE-PANEL BRANDING

QUAD SEAL POUCH

Box-shaped pouch with four corner seals & a flat base



QUAD SEAL · BOX POUCH

The **quad seal (box) pouch** is sealed at all **four vertical corners** and squares off into a rigid, free-standing box with a flat base. It offers the strongest shelf stability and a true **five-panel** canvas – front, back, two sides and base – for premium retail presentation.

RECOMMENDED GRADES

BARRIXA™ ULTRA

BARRIXA™ PRIME

BEST FOR

Premium coffee · protein & nutrition powders · nutraceuticals · pet food · cereals & grains in mid-to-large fills.

KEY FEATURES

- Box-stable footprint for dense palletising & shelving
- Five printable panels including side gussets
- Zipper, valve and tear-notch compatible
- High structural rigidity for heavier fills

SPECIFICATION

OTR / WVTR are maximum values (cc or g per m²/day), grade-dependent · thickness, fill & size build-to-order

Recommended BARRIXA™ grade	PRIME / ULTRA	Closure options	Zipper · Valve · Tin-tie
OTR (cc/m ² /day)	< 0.08 – 0.1	WVTR (g/m ² /day)	< 0.05 – 0.1
Total thickness (µm)	55 – 200	Barrier class	Absolute barrier
Filling range	As per customer requirement	Format & size	As per customer requirement

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SINGLE-SERVE · HIGH-SPEED FFS

3-SIDE SEAL POUCH

Flat sachet sealed on three edges — the sampling workhorse



3-SIDE SEAL · SACHET

A flat pouch sealed on **three sides** with one open edge for filling — compact, material-efficient and built for speed. It runs on high-output form-fill-seal lines and is the default for single-serve, sample and unit-dose packs.

RECOMMENDED GRADES

BARRIXA™ ULTRA

BARRIXA™ PRIME

BARRIXA™ PRO

BEST FOR

Spices & masala · ORS & sachets · sauces & ketchup · sugar/salt · cosmetics samples · alcohol swabs · unit-dose pharma.

KEY FEATURES

- Lowest material cost per unit; high line speeds
- Precise dosing for single-serve & sampling
- Easy-tear notch and laser scoring options
- Full foil barrier available for moisture-sensitive fills

SPECIFICATION

OTR / WVTR are maximum values (cc or g per m²/day), grade-dependent · thickness, fill & size build-to-order

Recommended BARRIXA™ grade	PRO / PRIME / ULTRA	Opening feature	Tear-notch · Laser score
OTR (cc/m ² /day)	< 0.08 – 0.2	WVTR (g/m ² /day)	< 0.05 – 0.2
Total thickness (µm)	55 – 200	Barrier class	Absolute barrier
Filling range	As per customer requirement	Format & size	As per customer requirement

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ECONOMICAL · HIGH OUTPUT

CENTRE SEAL POUCH

Back-seal pillow pouch for fast vertical & horizontal fill



CENTRE SEAL · PILLOW

The **centre seal (pillow) pouch** carries a **fin or lap seal down the back** with sealed top and bottom, forming a simple pillow shape. It is the most economical FFS format – fast, low-cost and proven across high-volume snack and confectionery runs.

RECOMMENDED GRADES

BARRIXA™ PRO

BARRIXA™ SMART

BEST FOR

Snacks & chips · namkeen · biscuits & confectionery · noodles · frozen foods · tea & coffee on VFFS / HFFS lines.

KEY FEATURES

- Lowest cost-per-pack with very high line speeds
- Runs on standard VFFS & HFFS machinery
- Wide print canvas across the front face
- Metallised or foil options for moisture & light barrier

SPECIFICATION

OTR / WVTR are maximum values (cc or g per m²/day), grade-dependent · thickness, fill & size build-to-order

Recommended BARRIXA™ grade	SMART / PRO	Machine compatibility	VFFS · HFFS
OTR (cc/m ² /day)	< 0.2 – 0.5	WVTR (g/m ² /day)	< 0.2 – 5
Total thickness (µm)	45 – 200	Barrier class	Mid barrier
Filling range	As per customer requirement	Format & size	As per customer requirement

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RECLOSABLE · CONVENIENCE

ZIPPER POUCH

Press-to-close reseal for multi-use, freshness-after-opening



A stand-up or flat pouch fitted with a **press-to-close zipper** just below the top seal, letting consumers open and reclose the pack many times while preserving freshness. It combines barrier protection with everyday convenience for multi-serve products.

RECOMMENDED GRADES

- BARRIXA™ ULTRA
- BARRIXA™ PRIME
- BARRIXA™ PRO

BEST FOR

Dry fruits & nuts · cheese & deli · frozen foods · snacks · pet treats · nutraceuticals · re-use retail packs.

KEY FEATURES

- Press-to-close, slider or child-resistant zipper options
- Reseal preserves aroma & freshness after first open
- Tear-notch or laser-score above the zipper for clean opening
- Available on stand-up, quad and flat constructions

SPECIFICATION

OTR / WVTR are maximum values (cc or g per m²/day), grade-dependent · thickness, fill & size build-to-order

Recommended BARRIXA™ grade	PRO / PRIME / ULTRA	Zipper type	Press-to-close · Slider · CR
OTR (cc/m ² /day)	< 0.08 – 0.2	WVTR (g/m ² /day)	< 0.05 – 0.2
Total thickness (µm)	55 – 200	Barrier class	Absolute barrier
Filling range	As per customer requirement	Format & size	As per customer requirement

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METALLISED BARRIER · WINDOW DISPLAY

METALLISED WINDOW POUCH

Full barrier body with a clear window to reveal the product



METALLISED · WINDOW

A pouch that combines a **high-barrier metallised body** with a **transparent window panel**, so shoppers see the actual product while the metallised laminate guards against light, oxygen and moisture. A strong fit where shelf visibility drives the purchase decision.

RECOMMENDED GRADES

BARRIXA™ PRIME

BARRIXA™ PRO

BEST FOR

Dry fruits & nuts · snacks & namkeen · grains & pulses · confectionery · premium tea.

KEY FEATURES

- Clear window for direct product visibility
- Metallised barrier for light & moisture protection
- Available on stand-up, 3-side or centre-seal
- Custom window shapes, sizes & positions

SPECIFICATION

OTR / WVTR are maximum values (cc or g per m²/day), grade-dependent · thickness, fill & size build-to-order

Recommended BARRIXA™ grade	PRO / PRIME	Window options	Oval · Rectangle · Custom
OTR (cc/m ² /day)	< 0.1 – 0.2	WVTR (g/m ² /day)	< 0.1 – 0.2
Total thickness (µm)	55 – 200	Barrier class	High barrier
Filling range	As per customer requirement	Format & size	As per customer requirement

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OXYGEN LOCKED · MAXIMUM FRESHNESS

VACUUM POUCH

High-strength barrier pouches engineered for vacuum packaging



Nylon-based **vacuum pouches** draw out air and hold a tight, oxygen-free environment around the product. The high-barrier, high-strength structure keeps moisture and oxygen out – locking in freshness, colour and flavour, and extending shelf life for direct-contact foods.

RECOMMENDED GRADES

BARRIXA™ ULTRA

BARRIXA™ PRIME

BEST FOR

Dry fruits · nuts & seeds · peanuts · spices · coffee beans · cheese · ready-to-eat products.

KEY FEATURES

- Strong vacuum retention & seal integrity
- Strong, durable multi-layer film
- Oxygen & moisture barrier preserves quality
- Food-safe for direct contact

SPECIFICATION

OTR / WVTR are maximum values (cc or g per m²/day), grade-dependent · thickness, fill & size build-to-order

Recommended BARRIXA™ grade	PRIME / ULTRA	Structure type	Nylon barrier · Co-ex
OTR (cc/m ² /day)	< 0.08 – 0.1	WVTR (g/m ² /day)	< 0.05 – 0.1
Total thickness (µm)	55 – 200	Barrier class	Absolute barrier
Filling range	As per customer requirement	Format & size	As per customer requirement

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