

VCI STRETCH FILM MANUFACTURER INDIA · ANTI-CORROSION CAST LINE · AHMEDABAD & PATAN, GUJARAT

VCI Stretch Film

Anti-corrosion protection for automotive & steel exports

Volatile Corrosion Inhibitor (VCI) LLDPE stretch film that actively protects ferrous and non-ferrous metal parts from rust and oxidation during export transit and storage — no greasing, no oils, no messy desiccants. Cast-line manufactured for automotive, steel, engineering and marine export supply chains.

Up to 24 mo

Corrosion Protection

Ferrous + Non-Ferrous

Multi-Metal Safe

17 – 51 µm

Micron Range

250 – 1000 mm

Width Range

Technical Specifications

PROPERTY	SPECIFICATION
Material	LLDPE + VCI (Volatile Corrosion Inhibitor) masterbatch
Protection	Ferrous & non-ferrous multi-metal (steel, iron, aluminium, copper, brass)
Protection Period	Up to 24 months (indoor storage); 6–12 months typical ocean export
Manufacturing Line	Fully automatic cast line (2026)
Micron Range	17 µm – 51 µm
Width Range	250 mm – 1000 mm (custom on request)
Grade	Machine & Hand grade
Cling	Two-side cling
Colour	Standard clear-tinted (blue/green tint common); custom on request
Test Standards	Razor blade & VIA vapor inhibition ability tests (TL 8135 / NACE TM0208 aligned)
MOQ	1 × 20' FCL for exports; trial orders on request
Certifications	ISO quality assurance

Key Features

Active VCI Chemistry

Molecular rust protection

Vapor-phase corrosion inhibitors are compounded directly into the film. On wrapping, VCI molecules vaporize and form an invisible mono-molecular layer on the metal surface — blocking moisture, oxygen and salts from starting corrosion.

- VCI compounded into the film
- Vapor-phase corrosion inhibition
- Protects enclosed voids & recesses
- No greasing or oil coating needed

Multi-Metal Protection

Ferrous & non-ferrous safe

One film protects steel, iron, cast iron, aluminium, copper, brass and mixed-metal assemblies — ideal for automotive components, machined parts and assembled machinery.

- Steel, iron & cast iron
- Aluminium, copper & brass safe
- Mixed-metal assemblies covered
- Tested against automotive specs

Clean, Dry & Removable

Unpack and use — no degreasing

Parts arrive clean, dry and rust-free — ready for machining, painting or assembly straight out of the wrap. No oil residue, no degreasing line, no disposal cost.

- No oil or grease residue
- Use parts directly on unwrapping
- Fully recyclable LLDPE base
- Lower total packaging cost vs VCI paper + oil

Built for Ocean Freight

Survives humid sea voyages

Engineered for the harshest export lanes — high-humidity ocean crossings, coastal warehousing and monsoon-season storage. Two-side cling and multi-layer cast strength keep loads sealed and unitised.

- Humidity & salt-air resistant
- Multi-layer cast construction
- 300%+ stretch, high puncture resistance
- Machine & hand grade available

Frequently Asked Questions

Q. What is VCI stretch film and how does it prevent rust?

VCI stretch film is LLDPE pallet wrap compounded with Volatile Corrosion Inhibitor chemicals. When wrapped around metal parts, the VCI vaporizes inside the enclosed space and deposits an invisible molecular layer on the metal surface that blocks moisture, oxygen and salts — preventing rust and oxidation without any oil or grease coating.

Q. Which metals does your VCI film protect?

Our VCI stretch film is multi-metal safe — it protects ferrous metals (steel, iron, cast iron) as well as non-ferrous metals including aluminium, copper and brass, and mixed-metal assemblies. This makes it ideal for automotive components, machined parts and assembled machinery.

Q. How long does VCI protection last during export?

Typically 6–12 months for ocean export shipments through high-humidity routes, and up to 24 months for indoor storage, when the load is fully wrapped and kept sealed. We recommend a full wrap with overlap for best results.

Q. Do I still need to grease or oil my parts before wrapping?

No — that is the biggest advantage of VCI film. Parts are wrapped clean and dry, arrive rust-free, and can go straight to machining, painting or assembly on unwrapping. This removes the degreasing step and its disposal cost from your customer's line.

Request a quote: <https://bopptapemanufacturers.com/products/vci-stretch-film> — share your specs and our export sales team will respond within 24 hours.