

# Zerust / VCI Packaging Selection Guide

Volatile corrosion inhibitor products for machine parts, marine spares, control panels & export packaging

Zerust volatile corrosion inhibitors (VCI) protect ferrous and non-ferrous metal parts in storage or transit by releasing a corrosion-inhibiting vapour into the enclosed space. The vapour condenses on the metal surface as an invisible monolayer that displaces water and blocks the electrochemical corrosion cell; when the part is removed from the enclosure the vapour dissipates and the surface is left clean, oil-free and ready for service — no wash, no strip, no additional cleaning. Products vary by carrier (film, paper, plastic tab, capsule, oil or spray), by chemistry (Ferrous for iron and steel only, Multimetal for iron plus copper / brass / zinc / aluminium) and by dose (each product carries a specified volume of enclosed space it protects). The table below lists the products most often ordered for marine spare part packaging, shipborne mothballing and long-storage export.

Product	Form	Coverage / dose	Protects	Shelf life	Notes
Zerust ICT510-PCS	Plastabs (peel-off adhesive tab)	30 L / tab	Ferrous	2 yrs enclosed	Small enclosures — control panels
Zerust ICT420-35P	Plastic emitter (35 mm x 100 mm)	0.14 m <sup>3</sup> / cap	Multimetal	2 yrs enclosed	Multimetal formula — boxes + boxes
Zerust Vapor Capsule VC1	Peel-and-stick capsule	0.03 m <sup>3</sup> / cap	Ferrous	2 yrs enclosed	Electronic housings, panel boxes
Zerust Axxanol Spray-G	Aerosol coating	~10 m <sup>2</sup> / can	Ferrous + non-ferrous	2 yrs indoor / 6 mo outdoor	Conduits, pipes, tanks
Zerust Axxanol 33-CP	Bulk oil (thin film)	Dip / brush / spray	Ferrous + Cu / brass	2 yrs indoor	Corrosion + operating
Zerust Multimetal Film Bag	Poly bag (60 – 400 µm)	0.03 – 5 m <sup>3</sup> per bag	Ferrous + Cu / brass / Al / Zn	2 yrs sealed	Marine spare-part export packaging
Zerust Ferrous Poly Film	Roll sheet (75 – 200 µm)	per m <sup>2</sup> wrap	Ferrous	2 yrs sealed	Roll goods; wrap and seal
Zerust ICT420-35P VCI paper	Kraft roll	~30 g/m <sup>2</sup> dose	Multimetal	2 yrs sealed	Marine spare-part export packaging
Zerust EXCOR Marine Film	Poly bag for shipborne parts	per part / bulk	Ferrous + non-ferrous	5 yrs sealed	MOD-approved for marine storage
Zerust Rust-Ban HD Bag	Heavy-duty poly bag	per part	Ferrous	2 yrs sealed	Highly puncture-resistant film

## Choosing the right product

- Metal family first. Ferrous formula (blue label) protects iron and steel only; on copper, brass, bronze, aluminium or accelerates corrosion. Multimetal formula (green label) protects the ferrous plus the non-ferrous metals in the same package. Use Multimetal when a shipment contains mixed materials.
- Then coverage. Every product carries a specified enclosed volume it protects (a plastab treats 30 L, a capsule 30 dm<sup>3</sup>, a bag its own internal volume up to a maximum wrap thickness). Undercalculating the dose leaves parts of the surface unprotected; over-dosing wastes.
- Enclose the space. VCI only works inside a closed enclosure — a cabinet, sealed poly bag, closed toolbox or shrink-wrapped pallet. An open shelf does not qualify. Seams and openings must be closed with tape or heat-seal.
- Shelf life. Sealed bag / film / paper products protect for 2 years in the closed package; open products (Axxanol Spray-G, Rust-Ban HD Bag) start their protection clock when the enclosure is opened.
- For marine spares. Multimetal Film Bags plus Vapor Capsule VC1 inside a sealed and labelled poly-bag pack is the default for marine spare-part export packaging; the pack is opened only for inspection and re-sealed with a fresh capsule.

## How to order from cBallast

Send the product code and quantity (or the enclosed volume in litres and the metals inside) to sales@cballast.com. Standard packs — plastabs in boxes of 20, capsules in boxes of 25, film bags in boxes of 100, and film / paper rolls in 30 m or 100 m — ship from stock. Non-standard bag or film widths are cut-to-order with 2 – 3 weeks lead time. All Zerust products carry a Multi-language SDS and the RoHS + REACH declarations required for EU export packaging.

Reference compiled by cBallast from Zerust Ferrous and Multimetal technical data sheets and the Zerust ICT (industrial-corrosion-technology) product handbook. Coverage figures are for an enclosed sealed space at 15 – 25 °C and 30 – 90 % RH; at higher temperature or in a repeatedly opened enclosure the effective coverage is reduced. Confirm against the current Zerust SDS and application data before final selection. Zerust is a registered trademark of Northern Technologies International Corporation (NTIC); all trademarks are the property of their respective owners.

## Need this part, or a compatible spare?

cBallast quotes and sources industrial and marine spare parts — including obsolete, discontinued and hard-to-find lines — through an OEM and authorised-distributor network. Send the part number, drawing, competitor code or a photo and we come back with an offer within one working day (Norwegian business hours).

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