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PRESS RELEASE



Leveraging Comprehensive Corrosion Solutions for Coil Processors

Coil processors have an excellent opportunity to improve their corrosion protection methodology thanks to Cortec's superior range of metalworking fluids and rust preventatives. With Cortec® rust preventatives, coil processors can get the corrosion protection they need with several benefits in terms of performance, user-friendliness, and typically lower environmental impact. When choosing a rust preventative, coil processors should seriously consider the qualifications of Cortec® corrosion solutions for various stages of steel coil processing.



VpCI®-325 and VpCI®-329 D are two outstanding options for application after wet-pickling. Both products displace water rather than trapping it on the surface and also perform better than commonly used Quaker

Ferrocote 61 MAL HCL 1. In one example, VpCI®-329 D outlasted Ferrocote 61 by 168 hours in ASTM D-1748 humidity testing, while VpCI®-325 lasted three times longer.

Results from ASTM D-1748 Humidity Testing*

Rust Preventative	Time to Failure (Hours)
None (Control)	24
Quaker Ferrocote 61 MAL HCL 1	216
VpCI®-329 D	384
Henkel Pennsteel 100	432
VpCI®-325	648

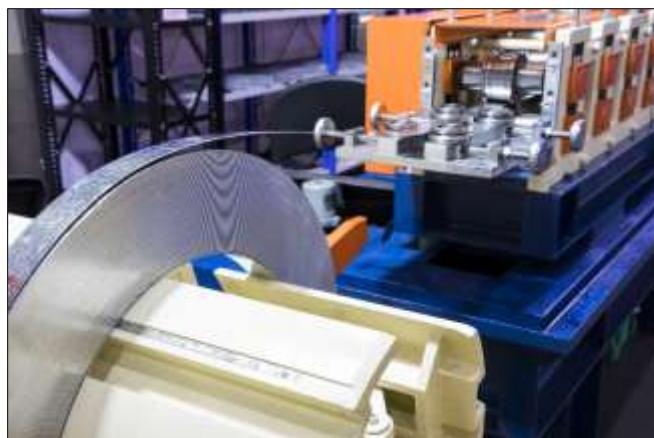
**Cortec Laboratories Project #12-228-1825.bis*



Two individual advantages of VpCI®-325 are that it is made with a vegetable derived, biodegradable oil base, and it has been tested and successfully used in electrostatic oilers. This is not always the case with rust preventatives. As many companies move forward in using electrostatic oilers to reduce the consumption of rust preventatives, VpCI®-325 has proven to be a great option for this process. Benefits of electrostatic oilers include better spraying, better coverage, and

reduced oil use—an excellent solution that promises to be easier on the environment and the pocketbook.

VpCI®-329 D has also shown exceptional results for coil processing. In 2005, one major coil processor began using it after trying several different rust preventatives in their oil system and finding VpCI®-329 D to work the best. As evidence of their satisfaction, the coil processor has been using VpCI®-329 D for the last 15 years and regularly orders the product in bulk 4,000-gallon (15,142 L) quantities.



Edge Sprays



After wet or dry pickling, BioCorr[®] is an excellent edge spray option. Whereas a traditional method of protecting coils might be to apply Ferrocoate 61 to the metal prior to recoiling and later as an edge spray, it can be very messy to do so. In contrast, BioCorr[®] application is very clean and dries completely so that it does not attract dust or debris from the plant. It has been tested and found compatible with Ferrocoate 61

for use as an edge spray to provide necessary protection while reducing mess. As an added advantage to a cleaner workspace, BioCorr[®] Rust Preventative contains 64% USDA certified biobased content, helping users improve their environmental profile.

VpCI[®]-337 is another good edge spray option—particularly for dry pickling applications—and can be sprayed into the coil from the edge, providing vapor-phase corrosion protection perfect for hard-to-reach spaces in between the coil layers (used in conjunction with proper packaging). VpCI[®]-337 is water-based and is another good way to eliminate the messiness of traditional oil-based edge sprays.

Wet Tempering

Cortec[®] also offers outstanding corrosion protection during wet tempering with VpCI[®]-344. VpCI[®]-344 is a water-based replacement for mineral oils that are traditionally used to reduce friction and inhibit corrosion. VpCI[®]-344 has been used on cold rolled, galvanized, and aluminized steel with excellent results. It offers a persistent film in turbulent high temperature and high shear conditions with extended protection against corrosion, white rust, and staining.



Packaging

While corrosion inhibitors applied during processing go a long way to provide necessary protection, good packaging is another important key to successful rust-free shipment, especially when facing open air transport on the back of a flatbed truck. VpCI[®]-126 Film tubing or Cor-Pak[®] VpCI[®]-Stretch Film are two



excellent packaging options that contain Vapor phase Corrosion Inhibitors right in the film, providing a physical barrier to the steel as well as proactive corrosion protection. These two films are compatible with C-hook or automatic stretch-wrapping equipment, respectively, for ease of application.

Cortec's corrosion inhibitor portfolio for steel coil processing applications are tried and true, offering value beyond basic corrosion protection with options that are more efficient, more effective, better for the environment, or all three! Contact us today for help choosing which solution to adopt:

<https://www.cortecvci.com/contact-us/>.

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<https://www.cortecvci.com/Publications/Reports/12-228.pdf>

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