

The background of the image shows a paper mill in operation. Large rolls of paper are being processed by a series of rollers. The rollers are made of polished metal, likely stainless steel, and are arranged in a sequence. The paper is a light beige or off-white color. The overall scene is brightly lit, highlighting the textures of the paper and the metallic surfaces. A large, semi-transparent orange circle is overlaid on the right side of the image, containing the text.

Volatile Corrosion Inhibitor

YES-VCI

Due to our up-to-date production system and strict quality control.

YES-VCI have enjoyed a good reputation among domestic and overseas

Customers for its prominent effectiveness in rust prevention on any kinds of steel and iron products and non-ferrous, copper & copper alloys goods.

YES-VCI는 철, 비철, 동 및 동합금 등의 모든 금속제품의 녹방지에 현저히 뛰어난 효과를 발휘하며 체계적인 생산 시스템과 엄격한 품질관리를 통해 국내외 고객들로부터 좋은 이미지를 가지고 있습니다.



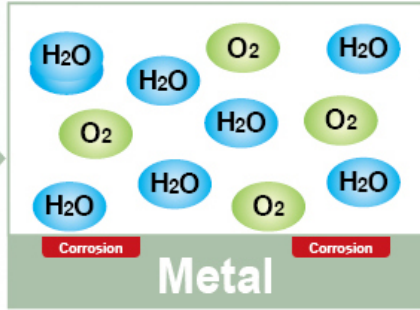
Mechanism of YES-VCI

Mechanism of Volatile Corrosion Inhibitor

(YES 방청제의 메카니즘)

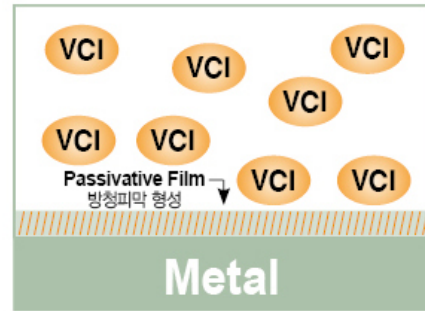
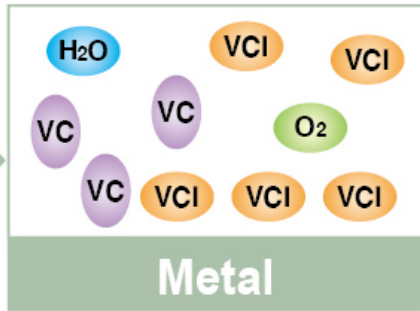


Mechanism of Corrosion
 녹발생 메카니즘



- Corrodents(Moisture,Oxygen)contact on the surface of metal. (부식인자 (습도, 산소등) 금속면 접촉)
- Begins electrochemical reaction by charge transfer. (전자이동으로 전기화학적 반응)
- Occurs corrosion. (부식발생)

Mechanism of Inhibition
 녹방지 메카니즘



- VCI:vaporization / saturation (VCI 기화 및 포화)
- Formation of recovering passivative Barrier (Film) (VCI 흡착으로 지속적인 피막형성)
- Formation of passive molecular layer on the surface of metal. (VCI의 금속표면 흡착 및 방식분위기 조성)
 - Chemisorption on metal. (VCI 금속표면 흡착)
 - Complexing with metal ion (착화합물 형성)
 - Neutralizing / Absorbing the corrodents (부식인자 중화)

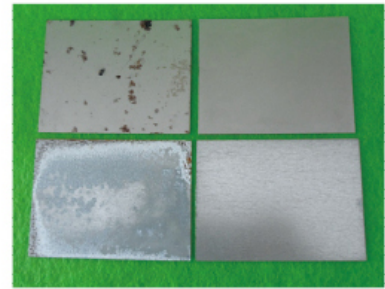
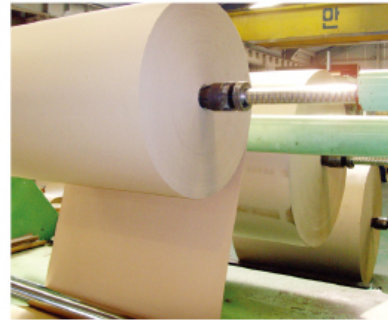
VCI Benefits

1. Long lasting, effective protection against corrosion (밀폐공간에서 별도의 방청처리가 필요없이 사용가능)
2. Easy, clean and economical application options (제품의 미세한 부위에도 방청가스가 도달하여 방청가능)
3. Multimetal Protection (신속하게 방청분위기를 형성하며 방청효과가 지속적임)
4. Simple Application (포장해체시 후처리 없이 바로 사용가능)
5. Safe for Personnel and Environment (경제적임)



Characteristics of YES-VCI (YES-VCI의 특징)

1. YES-VCI provide multimetal protection with corrosion inhibiting vapors that condense onto the surface of your products and extremely effective corrosion inhibiting layer.
B-VCI는 상온에서 승화 또는 기화하기 쉬운 화합물로서 기체상태로 금속 표면에 흡착 부동태화 시키거나 부식요소를 중화함으로써 부식을 억제하는 부식 억제제이다.
2. Highly effective under any severe circumstance. (어떠한 조건에서도 뛰어난 방청성을 지닌다.)
3. Excellent in both the immediate and delayed effect. (속효성과 지속성이 모두 우수하다)
4. Various Kinds of VCI(Ferrous,Non-ferrous,Copper&Copper&alloys)
(다양한 종류의 방청제(철용, 비철용, 동 및 동합금))



VCI Classification (방청제 종류)

1. VCI for Ferrous metal / VCI for non-ferrous metal / Multi-metal (철용방청제 / 비철용방청제 / 공용방청제)
 - ACF : Steel products, Cold rolled coil & mechanical device (일반 철강제품, 냉연코일 및 부품 등)
 - ACN : Galvanized iron, Galvanized sttdll plate & Multimetal (아연강, 아연강판 및 복합금속제품)
 - ACC : Copper & Copper alloy (동 및 동합금 제품)
 - ACCF : Copper, Copper alloy coated steel & Radial cord (동합금 도금강 (용접봉))
 - ACM : Multi-metal (복합 철강제품)

VCI applied products (방청제 적용제품)

VCI powder(VCI pouch & Emitter), VCI paper, VCI Film, VCI Box (방청파우더, 방청지, 방청필름, 방청박스)

Other Products (기타제품)

- Water-proof Paper (방수지)
- Paper board (판지)

Specifications of YES-VCI Products (제품사양)

| Type | Item No | Description | Usage | Packaging |
|-------------------|--|---|--|-------------------------------------|
| VCI Powder | AC-P100 AC-P200 | Powder | Ferrous metal (철용) Ferrous & Non-Ferrous Metal (공용) | Pouch & Fmitter Customized sizer |
| VCI Solution | ACF ACN ACC ACCF | Water-based or Solvent-based solution suitable for coating paper (방청지용) | Ferrous metal (철용) Non-Ferrous metal (비철용) Copper & Copper Alloy (동용/동합금) Copper & Copper Alloy / steel (동철용) | Package 20kg Can 200kg drum |
| Water-Proof Paper | C-10 C-20 C-30 C-40 C-41 C-45 | Polyethylene and Opp film coated papers (PE, OPP 종이합지) | Steel Packaging (철강 포장) | Customized sizes (고객요구 SIZE) |
| VCI Paper | AC(N)-50 AC(N)-55 AC(N)-60 AC(N)-61 AC(N)-62 AC(N)-70 AC(N)-80 AC(N)-90 | Multimetal VCI and barrier coated Papers (종이, 보강재, 코팅) | Steel Packaging (철강 포장) | Customized sizes |
| | ACC-100 ACCF-150 ACCF-160 | | Copper & Copper Alloy Packaging (동 및 동합금 포장) | Customized sizes |
| VCI Film | | VCI Film | Steel Packaging (철강 포장) | Customized sizes |

- Other than above listed ones, various kinds of VCI paper are available upon customer's request.
(주문에 따른 제품생산 가능)

Quality Control (품질관리)

| Item | Item for | Test | Test Standard |
|---|---|--|----------------------|
| Anti-rust wrapping paper & VCI (방청지 및 방청제 분야) | ferrous (철용) | Anti-corrosion test (방청성 시험) Contact corrosivity test (접촉 방청성) Vapor inhibitor ability (기화성 방청성) | KST 1086 |
| | non-ferrous (비철용) | Contact corrosivity test (접촉 방청성) | KSM 7701 & JISZ 0320 |
| | copper, copper / steel (동 및 동 철용) | Contact corrosivity test (접촉 부식 억제성) Vapor inhibitor ability (기상 부식 억제성) | |



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