



Cobalt Dichloride Free HI Cards

Purpose

To offer the electronics and semiconductor industries a Cobalt-Dichloride (CoCl₂) Free humidity indicator (HI) card, while maintaining the accuracy required by international JEDEC standards.

What are they?

Cobalt-Dichloride Free HI Cards provide electronic and semiconductor manufacturers with a JEDEC-compliant humidity indicator card that is free of Cobalt-Dichloride, a chemical regulated under European Chemical Bureau (ECB) REACH directives.

Why use them?

Some companies have expressed the desire to begin using a Cobalt-Dichloride Free humidity indicator card. The Humitector CDF provides verifiable color-change accuracy as required by JEDEC standard J-STD-033B, as well as exceeds applicable regulations administered by the ECB.

The Cobalt-Dichloride card meets the verifiable JEDEC required color-change requirements below:

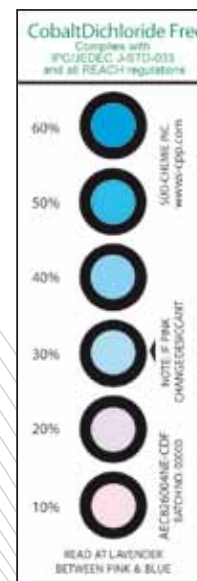
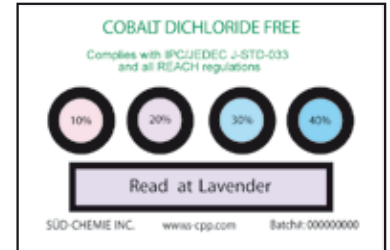
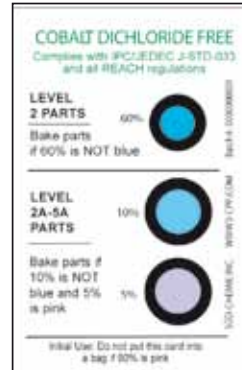
	Indication at 2 % RH Environment	Indication at 5% RH Environment	Indication at 10% RH Environment	Indication at 60% RH Environment	Indication at 65% RH Environment
5% Spot	Blue (dry)	Lavender (spot value) Δ ≥7% hue	Pink (wet)	Pink (wet)	Pink (wet)
10% Spot	Blue (dry)	Blue (dry)	Lavender (spot value) Δ ≥10% hue	Pink (wet)	Pink (wet)
60% Spot	Blue (dry)	Blue (dry)	Blue (dry)	Lavender (spot value) Δ ≥10% hue	Pink (wet)

Note: Other color schemes may be used

Available configurations

The Cobalt-Dichloride humidity indicator card is available in the standard JEDEC-required format indicating 5, 10 and 60 percent relative humidity levels.

Süd-Chemie continues to manufacture a full range of CoCl₂ based humidity indicator cards that are also in full compliance with relevant ECB regulatory, reporting and labeling requirements for the importation of CoCl₂ containing products.



Key Points

- Cobalt-Dichloride Free Hi Cards are free of Cobalt-Dichloride (CoCl₂), a chemical which has classification and labeling requirements under the European Chemical Agency (ECHA) REACH directives
- Fully compliant with JEDEC standard J-STD-033B for color-change accuracy
- Meets all relevant ECB/REACH labeling requirements
- Typical applications include the dry packaging of semiconductor and electronic devices

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