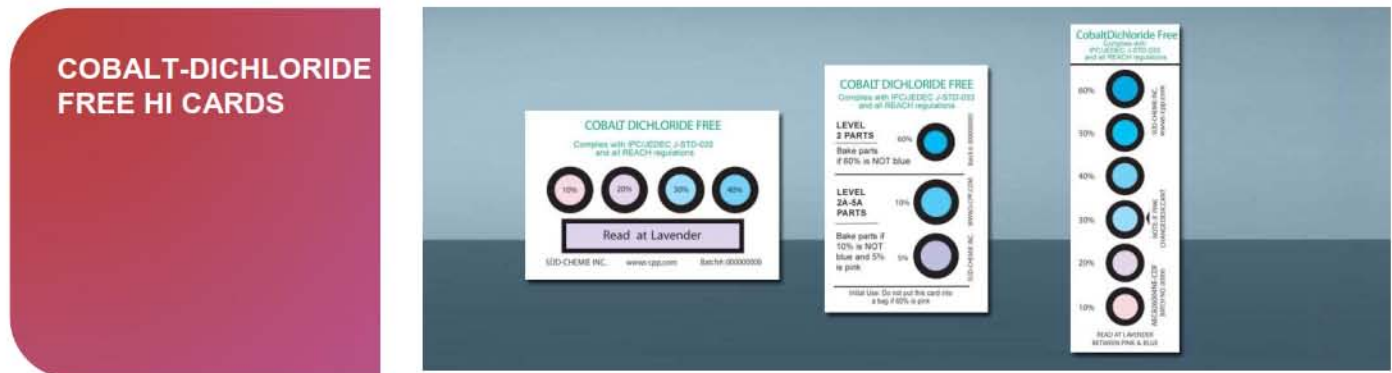


Product Sheet

COBALT-DICHLORIDE FREE HUMIDITY INDICATING CARDS



PURPOSE

To offer the electronics and semiconductor industries a Cobalt-Dichloride (CoCl_2) Free humidity indicator card, while maintaining the accuracy required by international JEDEC standards.

WHAT ARE THEY?

Cobalt-Dichloride Free Humidity Indicator (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?

Many products such as sensitive semiconductors, electronics, optics, radar and various defense systems are highly sensitive to moisture. In order to constantly verify that dry packaging methods are not compromised during storage and transport of these products, humidity indicator cards allow users along the supply chain to monitor the package conditions.

Some companies desire the use of indicators that are free of Cobalt-Dichloride. The Cobalt-Dichloride Free HI Cards from Clariant provide verifiable color-change accuracy as required by JEDEC standard J-STD-033, as well as exceed applicable regulations administered by the ECB.

AVAILABLE CONFIGURATIONS

Cobalt-Dichloride Free HI Cards are available in all standard configurations and humidity ranges, including the standard JEDEC-required format indicating 5, 10 and 60 percent relative humidity levels.

Clariant continues to manufacture a full range of CoCl_2 based humidity indicator cards that are also in full compliance with relevant JEDEC standards and ECB regulatory, reporting and labeling requirements.

JEDEC COMPLIANCE

Humitector® CDF Humidity Indicator Cards provide visible color change humidity indication as required for dry packaging under JEDEC standards.

Table 3-2 Typical HIC spot compliance

	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) $\Delta \geq 7\%$ hue	Pink (wet)	Pink (wet)	Pink (wet)
10% Spot	Blue (dry)	Blue (dry)	Lavender (spot value) Δ $\geq 10\%$ hue	Pink (wet)	Pink (wet)
60% Spot	Blue (dry)	Blue (dry)	Blue (dry)	Lavender (spot value) $\Delta \geq 10\%$ hue	Pink (wet)

Note: Other color schemes may be used

AVAILABLE CONFIGURATIONS

Humitector® CDF Humidity Indicator Cards provide visible color change humidity indication as required for dry packaging under JEDEC standards.

REVERSIBLE

Description	Indicates (%RH)	Dimensions	Pkg./Approx. Wt.
Three-Spot			
MS051060-CDF: Meets JEDEC Standard J-STD-033 and MIL-I-8835.	5, 10, 60	2" x 3"	125 cards per liter can; 5,000 cards per case; 25 lbs per case
MS051015-CDF: Meets JEDEC Standard J-STD-033 and MIL-I-8835.	5, 10, 15	2" x 3"	125 cards per liter can; 5,000 cards per case; 25 lbs per case
Six-Spot			
AEC826004NE-CDF: Designed for the electronics industry. Meets IAW MIL-I-8835.	10, 20, 30, 40, 50, 60	2" x 3"	125 cards per liter can; 5,000 cards per case; 25 lbs per case

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