

Humidity Indicator Cards

Poly Lam - Süd-Chemie Performance Packaging's humidity indicator cards allow for fast visual inspection of the relative humidity within sealed packages

What are humidity indicator cards?

High relative humidity can cause significant, possibly irreparable damage to sensitive equipment, supplies, and products. To ensure dehydration measures work, humidity indicator cards measure the relative humidity (RH) inside sealed packages to allow immediate visual inspection of whether it has sustained unsafe humidity levels. Used along with Süd-Chemie Performance Packaging desiccant products, they offer the highest level of protection against moisture damage in packaging.

Humidity indicator cards are available in several configurations and can be customized for a number of applications. Süd-Chemie offers cards that meet Military Specifications (Mil-I-8835 and Mil-P-116 Method II) and JEDEC (JSTD-033) standards. Humidity indicator cards are fully reversible, monitoring the current relative humidity in packaging. (Non-reversible cards that record the maximum RH are also available.)

Application

1. The humidity indicator spots will change from blue (dry condition) to pink (humid condition) as the relative humidity changes in the volume of air surrounding the indicator.
2. Relative humidity is indicated at the lavender color.
3. Indicator spots will change within eight hours of being exposed to a change in relative humidity.
4. The humidity indicator spots are reversible, and the pink spots will change back to blue when the volume of air is dried. Humidity indicator cards with pink or lavender spots can be returned to a blue color by placing indicators in a sealed container with 33 grams (1 unit) of desiccant for four hours.
5. The highest humidity indicator spot should be blue before being put into use.
6. The humidity indicator will be at its most accurate at a temperature of 23° C (73° F).
7. Avoid contact with indicator spots. Wash any irritated areas with clean water.

Handling

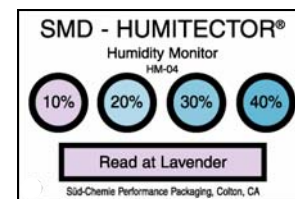
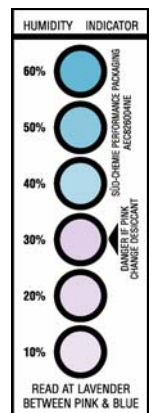
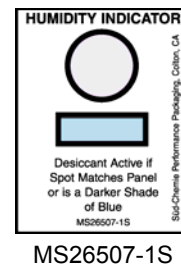
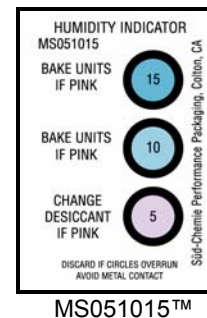
1. Store humidity indicators in original container with desiccant when possible and keep sealed.
2. Replace desiccant bag after three openings of container.
3. Store in dry, cool area.
4. Keep indicators out of direct sunlight.
5. Keep humidity indicators away from water or steam.
6. Ammonia gases will damage humidity indicators.

Typical Applications:

- Electronics
- Optical instruments
- Preservation packaging
- Bulk packaging
- Military components
- Metals
- Organic materials
- Synthetic materials



See Appendix for dimensions and configurations.



HM-04[®] SMD-HUMITECTOR

Sample cards not to scale

Poly Lam Products, Corp.

Phone: 716-633-1977

800-836-9648

www.polylam.com

Appendix: Specifications for Reversible Humidity Indicator Cards

Label	Indicates	Dimensions	Pkg./Approx. Wt.
AEC826004NE Designed for electronics packaging and complies with Mil-I-8835 and Mil-P-116.	10, 20, 30, 40, 50, 60% RH	1 9/16" x 4 3/4"	200 cards per liter can 5,000 cards per case 25 lbs. per case
HM-04 SMD-Humitector Designed specifically for the electronics industry and is ideal for use with other components of the "Dry Pack" packaging concept. Complies with Mil-I-8835 and Mil-P-116.	10, 20, 30, 40% RH	2" x 3"	100 cards per pint can 4,000 cards per case 23 lbs. per case
MS051015 Meets JEDEC Standard JSTD-003.	5, 10, 15% RH	2" x 3"	125 cards per liter can 5,000 cards per case 25 lbs. per case
MS123 Designed for the electronics industry.	10, 20, 30% RH	2" x 3"	125 cards per pint can 5,000 cards per case 23 lbs. per case
MS234 Designed for the electronics industry.	20, 30, 40% RH	2" x 3"	300 cards per liter can 7,500 cards per case 29 lbs. per case
MS20003-2 Current military standard approved by all government agencies, the Department of Defense, and NATO for use in Method II packaging. Complies with Mil-I-8835 and Mil-P-116.	30, 40, 50% RH	2" x 3"	125 cards per pint can 5,000 cards per case 23 lbs. per case
MS20003-3 Used where space is limited. It is identical in design to MS20003-2, except it is 1/2 of its size. Ideal for packaging in small barrier bags. Complies with Mil-I-8835 and Mil-P-116.	30, 40, 50% RH	1" x 1 5/8"	500 cards per pint can 20,000 cards per case 27 lbs. per case
MS26507-1 Designed for use in desiccant containers in order to ensure the desiccant is in an activated condition. Complies with Mil-I-8835 and Mil-P-116.	8% RH	3 1/4" x 3 1/4"	625 cards per liter can 2,500 cards per case 16 lbs. per case
MS26507-1S Designed for use in desiccant containers in order to ensure the desiccant is in an activated condition. Complies with Mil-I-8835 and Mil-P-116.	8% RH	1 1/2" x 2"	250 cards per liter can 10,000 cards per case 25 lbs. per case



Poly Lam Products, Corp.

P.O. Box 1734 / Willaimsville, NY 14221

Phone: 716-633-1977
800-836-9648

Fax: 716-633-2007

E-mail: information@polylam.com

Web: www.polylam.com