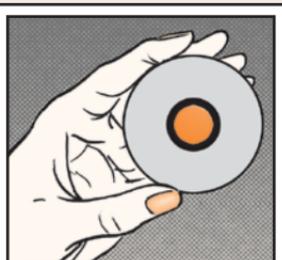
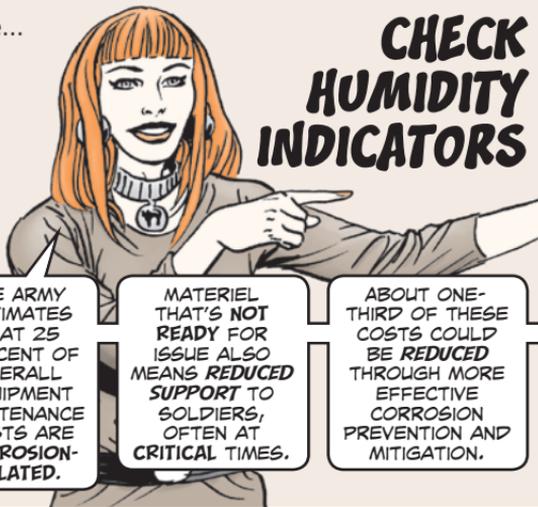


# CHECK HUMIDITY INDICATORS



THAT'S WHY **CHECKING HUMIDITY INDICATORS** ON LONG-LIFE REUSABLE CONTAINERS (LLRCs) IS **IMPORTANT**.

NOT ONLY SHOULD IT BE A **CORNERSTONE** IN EVERY UNIT'S CORROSION PREVENTION CONTROL PROGRAM...

THE ARMY ESTIMATES THAT 25 PERCENT OF OVERALL EQUIPMENT MAINTENANCE COSTS ARE **CORROSION-RELATED**.

MATERIEL THAT'S **NOT READY** FOR ISSUE ALSO MEANS **REDUCED SUPPORT** TO SOLDIERS, OFTEN AT **CRITICAL TIMES**.

ABOUT ONE-THIRD OF THESE COSTS COULD BE **REDUCED** THROUGH MORE EFFECTIVE CORROSION PREVENTION AND MITIGATION.

## ...IT'S ALSO REGULATION!

ALARACT 263/2013, CARE OF SUPPLIES IN STORAGE (COSIS) FOR CLASS IX COMPONENTS, **REQUIRES** UNITS TO MAKE PERIODIC INSPECTIONS OF CONTAINERS AND CHECK THE STATUS OF HUMIDITY INDICATORS.

A HUMIDITY INDICATOR SERVES AS AN ALARM THAT THE HUMIDITY LEVEL INSIDE AN LLRC IS RISING AND ITS CONTENTS MAY BE AT **RISK**, SO THERE'S A NEED TO TAKE ACTION **FAST**.



**I'VE GOT HUMIDITY HERE! LET'S MOVE IT, PEOPLE!!**



UNDERSTANDING THE **DIFFERENT** KINDS OF HUMIDITY INDICATORS AND **WHEN** THEY NEED REPLACEMENT IS THE **KEY**.

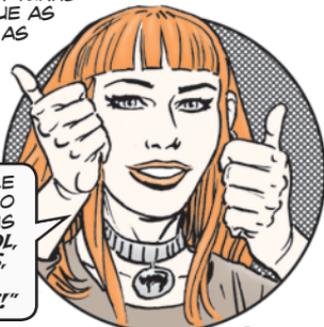
THERE ARE **TWO TYPES** OF HUMIDITY INDICATORS, **REVERSIBLE** AND **NON-REVERSIBLE**.

## Reversible Humidity Indicators

AS HUMIDITY INCREASES, THE DISC INDICATOR'S COLOR TURNS FROM **BLUE** TO **LAVENDER** TO **PINK**. IT TURNS BACK TO BLUE AS HUMIDITY DECREASES. THIS DISC IS REUSABLE AS LONG AS IT HAS **NOT** TURNED WHITE.

- **Blue:** Humidity level less than number indicated on disc/spot = **GOOD**
- **Lavender:** Humidity level equal to number indicated on disc/spot = **CAUTION**
- **Pink:** Humidity level surpassed the number indicated on disc/spot = **BAD**
- **White:** Humidity indicator not working and must be replaced = **BAD**

A BASIC RULE OF THUMB TO REMEMBER IS **"BLUE IS COOL, PINK STINKS, AND WHITE REALLY BITES!"**

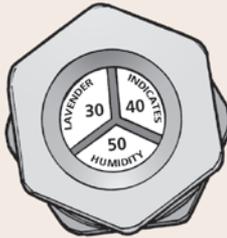


THERE ARE TWO STYLES OF REVERSIBLE HUMIDITY INDICATORS...

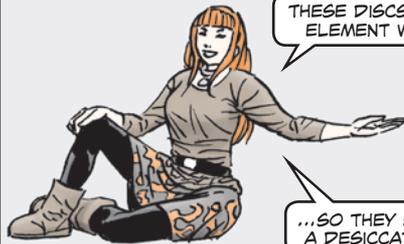
● Single spot disc



- Multiple spot/multiple section (pie) disc
  - "Below" number is 10 less than threshold (CAUTION and monitor if pink)
  - "Threshold" number is the level of relative humidity (RH) that cannot be exceeded within the container, usually 40 for most assets. Change the desiccant if it turns pink.
  - "Exceeded" number is 10 more than the threshold. Check the asset. For example, on a 30/40/50 disc, with a humidity level not to exceed 30 percent: below = 30, threshold = 40, exceeded = 50.



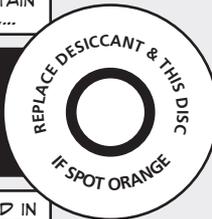
Non-reversible Delayed Response Maximum Humidity Indicator Discs



THESE DISCS CONTAIN A COLOR-STAIN ELEMENT WHICH IS IRREVERSIBLE...

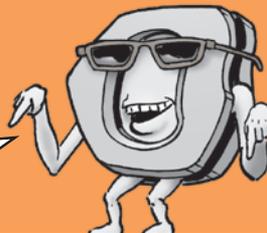
- White = GOOD
- Orange/Brown: Humidity level exceeded = BAD

...SO THEY SHOULD ONLY BE USED IN A DESICCATED (DRY) ATMOSPHERE.



WHAT IF THE DISC COLOR CHANGES?

FOLLOW THE INSTRUCTIONS BELOW FOR YOUR LLRC AND INDICATOR TYPE...



Reversible Humidity Indicators

- If any portion of the indicator turns pink, change the desiccant as required. Recheck in 24 hours.
- If the entire indicator turns pink, open the LLRC to check the condition of the asset.

Non-reversible Humidity Indicators

- If the indicator turns orange/brown, open the LLRC to check conditions of the asset.
  - Replace indicator.
  - Change desiccant as required.

Humidity Indicator Cards and Discs

Nomenclature	Description	NSN 6685-	PN
Card (disc)	20/30/40/50% Spot-Humidity	01-591-2831	TA396-HC-2345S
Card (disc)	20/30/40% Spot-Humidity	00-052-1865	TA356-HC-2345S
Card (disc)	20/30/40/50% Pie-Humidity	01-523-0700	TA356-HC-2345P
Card (disc)	20/30/40/50% Spot-Humidity	00-544-9706	TA346-HC-2345S
Card (disc)	20/30/40% Pie-Humidity	01-370-3699	TA356-HC-234P
Humidity Indicator Plug	20/30/40% Humidity	00-464-4660	MS18013-3
Card (flat)	10/20/30/40/50/60% Humidity	00-526-8526	826004

HERE ARE A FEW TIPS TO MAKE IT EASIER TO INSPECT HUMIDITY INDICATORS...

- Arrange LLRCs for easy visual inspection.
- Orient LLRCs so humidity indicators are visible.
- Store LLRCs in well-lit areas and under cover if possible.

FOR MORE TIPS ON HOW TO PROTECT EQUIPMENT IN STORAGE, SEE PAGES 52-57 IN PS 740...

<https://www.logsa.army.mil/psmag/archives/PS2014/740/740-52-57.pdf>

FOR QUESTIONS OR HELP, CONTACT THE LOGISTICS SUPPORT ACTIVITY'S PACKAGING, STORAGE AND CONTAINERIZATION CENTER AT DSN 795-7257, (570) 615-7257, OR EMAIL:

[usarmy.tyad.usamc.mbx.pt@mail.mil](mailto:usarmy.tyad.usamc.mbx.pt@mail.mil)

