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Humidity Calibration Salt Capsules

- Optional UKAS certification
- Range of use 3 – 97% RH
- Unlimited usage
- Safe & convenient encapsulated salts

Humidity Calibration Salt Capsules

Salt capsules for use on air humidity probes. For various humidity levels & fully certified.



- Fully portable, optionally fully UKAS traceable, use on-site or laboratory based
- No preparation, no mess, no power or auxiliary equipment needed
- Multiple, unlimited use, typically a 5 year life span
- Annual recalibration to ISO 17025 available
- Size: 18mm diameter by 55mm depth
- Simple to use and store
- Fully re-useable with re-sealing containers
- A full range of humidity values from 6% up to 97% humidity
- Calibration uncertainty typically +/- 1.7 % RH
- Health & safety (COSHH) material data sheets available with all calibration salts

Relative humidity emitted at specified temperatures:

SC (rh%)	Composition	15°C	20°C	25°C	30°C	
SC-6	LiBr	6.9 %	6.6%	6.4%	6.2%	Buy now
SC-11	LiCl	11.3%	11.3%	11.3%	11.3%	Buy now
SC-33	MgCl2-6H2O	33.3%	33.1%	32.8%	32.4%	Buy now
SC-53	Mg(NO3)2-6H2O	55.9%	54.4%	52.9%	51.4%	Buy now
SC-58	NaBr	60.7%	59.1%	57.6%	56.0%	Buy now
SC-75	NaCl	75.6%	75.5%	75.3%	75.1%	Buy now
SC-84	KCl	85.9%	85.1%	84.3%	83.6%	Buy now
SC-90	Ba(Cl)2-2H2O	90.9%	90.5%	90.1%	89.9%	Buy now
SC-97	K2SO4 (>20%)	97.9%	97.6%	97.3%	97.0%	Buy now
12mm adaptor to suit selected probes from Rotronics, E & E Humidity						Buy now
15mm adaptor to suit selected probes from Rotronics, Vaisala, Meaco						Buy now

Compatibility without adaptor to suit most probes from: Novasina, Hanwell (HL series) & Eltek (GD series)

Humidity Calibration Salt Tablets

Simple to use salt tablets for water activity meters. For various humidity levels and fully certified.



- Fully portable, optionally fully UKAS traceable, use on-site or laboratory based
- No preparation, no mess, no power or auxiliary equipment needed
- Multiple, unlimited use, typically a 5 year life span
- Annual recalibration to ISO 17025 available
- Simple to use and store
- Fully re-useable with re-sealing containers
- A full range of humidity values from 4% up to 97% humidity
- Calibration uncertainty typically +/- 1.7 % RH
- Health & safety (COSHH) material data sheets available with all calibration salts
- Suitable for all models of Novasina water activity meters

Relative humidity emitted at specified temperatures:

SAL-T (aw)	Composition	15°C	20°C	25°C	30°C
SAL-T / 4	CsF (>25%)	4.3%	3.8%	3.4%	3.0%
SAL-T / 6	LiBr	6.9 %	6.6%	6.4%	6.2%
SAL-T / 11	LiCl	11.3%	11.3%	11.3%	11.3%
SAL-T / 33	MgCl ₂ ·6H ₂ O	33.3%	33.1%	32.8%	32.4%
SAL-T / 53	Mg(NO ₃) ₂ ·6H ₂ O	55.9%	54.4%	52.9%	51.4%
SAL-T / 58	NaBr	60.7%	59.1%	57.6%	56.0%
SAL-T / 75	NaCl	75.6%	75.5%	75.3%	75.1%
SAL-T / 84	KCl	85.9%	85.1%	84.3%	83.6%
SAL-T / 90	Ba(Cl)2·2H ₂ O	90.9%	90.5%	90.1%	89.9%
SAL-T / 97	K ₂ SO ₄ (>20%)	97.9%	97.6%	97.3%	97.0%

How to use:

Humidity Calibration Salt Capsules

Using the SC (Sensor Check) calibration salts for AIR HUMIDITY

Storage and temperature stability:

1. Ensure that the calibration salt capsules (SC) have been kept inside the sealed containers and they have evidence of salt crystal and moisture inside.
2. Shake them up ready for use.
3. Ensure that the calibration salt capsules (SC) are at the same room temperature as the humidity probes you are about to calibrate. Use only between 15 – 30° Celsius.

Application to humidity probe:

1. Remove the grey plastic cap from the calibration salt capsules (SC) and shake it once more.
2. Fit it to the probe you are calibrating and ensure there is a reasonably air tight seal around it (you may need to use the grey adaptor ring supplied with the instrument if the probe is smaller than the 18mm diameter of the inside of the calibration salt capsules (SC). 15mm adaptors are also supplied to fit other makes of humidity probe such as Rotronic and Vaisalla.

Readings:

Leave the calibration salt capsules (SC) to equilibrate with the humidity probe for a minimum of 20 minutes at stable temperature.

Check the calibration (1% RH tolerance – see the humidity at different temperatures on the label on the side of the calibration salt capsules (SC).

Examples of SC humidities at 25° Celsius:

Calibration salt capsules (SC)	% RH
SC11	11.3%
SC58	57.6%
SC75	75.3%



Adjustment:

If the instrument being calibrated requires adjustment to get the readings within tolerance, follow the operating manual for that specific instrument or use the appropriate calibration software with on-screen intuitive instructions (e.g. nSens / nSoft for Novasina ClimMate and for Quantadat instruments).

Note that the Novasina calibration adjustment is automatic in that it will detect the humidity of the SC calibration salt capsules (SC) applied and will also correct for the specific humidity value at that temperature.

If an adjustment is required, follow the procedure on-screen or via the software (nSens / nSoft).



How to use:

Humidity Calibration Salt Tablets

Using the SAL-T (Salt Tablet) calibration salts for WATER ACTIVITY

Storage and temperature stability:

1. Ensure that the calibration salt tablets (SAL-T) have been kept inside the sealed containers and they have evidence of salt crystal and moisture inside.
2. Shake them up ready for use.
3. Ensure that the calibration salt tablets (SAL-T) are at the same room temperature as the humidity probes you are about to calibrate. Use only between 15 - 30° Celsius.

Application to water activity meters:

1. Remove the calibration salt tablets (SAL-T) and shake it once more.
2. Put it into the water activity meter chamber you are calibrating and ensure the chamber is clean and that there is no contaminated sensor protective filter fitted (e.g. EVC21 filter).
3. Close the water activity chamber.

Readings:

Leave the calibration salt tablets (SAL-T) to equilibrate inside the chamber for a minimum of 30 minutes at a stable temperature.

Check the calibration (1% RH tolerance – see the humidity at different temperatures on the label on the side of the SAL-T).

Examples of SAL-T humidities (ERH % or aw) at 25 Celsius

Calibration salt tablet (SAL-T)	% RH	aw
SAL-T 11	11.3%	0.113 aw units
SAL-T 58	57.6%	0.575 aw units
SAL-T 75	75.3%	0.753 aw units
SAL-T 97	97.3%	0.973 aw units



Adjustment:

If the instrument being calibrated requires adjustment to get the readings within tolerance then follow the operating manual for that specific instrument.

Note that the Novasina calibration adjustment is automatic in that it will detect the humidity of the calibration salt tablets (SAL-T) applied and will also correct for the specific humidity value at that temperature.

Follow the adjustment procedure on-screen. Should a calibration adjustment password be required (for Novasina instruments) this is normally set by default to 8808.

Note: For UKAS certified calibration SC or SAL-T salts you must also calibrate in the same way as a standard salt by using the values of humidity assigned on the label on the side of the salt capsule (e.g. 75.3% @ 25°C).

Please do not use the UKAS certificate assigned value as this is a verification only to a limited calibration uncertainty of +/-1.7% RH (in most cases) for the benefit of traceability to a national primary standard (NPL).

The Novasina instrument is only designed to auto adjust at pre-defined humidity values shown on the salt label from 15 - 30°C.



Other products available

Water Activity Instruments



LabMaster-aW Neo

Water Activity Meter

- Absolute confidence
- Maintain high product quality
- Maintain product shelf life & safety



LabTouch AW

Water Activity Meter

- Portable, light-weight design
- Fast equilibrium times
- Sample temperature control
- Recommended aW range:
0.11 up to 0.95 aW



LabSwift AW

Water Activity Meter

- Portable, light-weight design
- Fast equilibrium times
- No sample temperature control
- Recommended aW range:
0.11 up to 0.85 aW

Precision Humidity and Dewpoint Instruments



QuantaDat

Humidity & Dewpoint Measurement Transmitter

- Intelligent probe with internal calibration point storage
- High measurement accuracy
- Linear response over full working range



nLink Analog

Humidity & Temperature Transmitter

- Dual channel relative humidity & temperature
- IP67 housing
- 2 scalable analogue outputs: current 0/4 - 20mA or voltage 0/2 - 10V