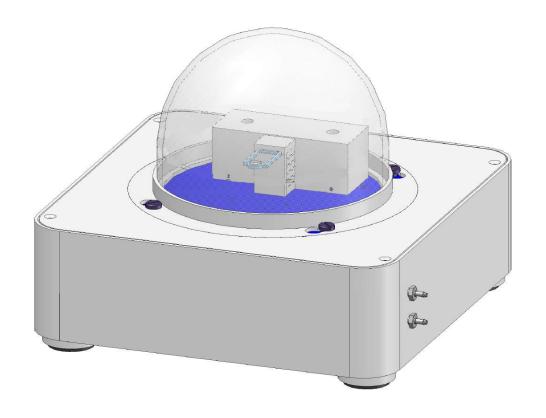


# How To Calibration disc with Chip-DSC



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# 1. General information

This manual is a short description for using the calibration disk during the chip calibration. This special hardware can be used to keep the samples physically separated on the crucible in preparation for the calibration measurement. To be clear this hardware is only used to help load samples and is removed before making a sample measurement.

# 2. Requirements

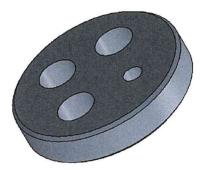
### 2.1 calibration material

- o Matching calibration standard are delivered with every Chip-DSC
- o Recommended materials are Indium, Tin, Lead and Zinc
- To make sure the wires (diameter 1 mm respective 0.5 mm) fit to the calibration disc, take care they are not bent
- Instead of the delivered materials you can use also other standards that fit within the temperature range of your device



### 2.2 calibration disc

- o The calibration disc is available through Linseis
- o The discs are produced symmetric so it doesn't matter if they are flipped upside down





### 2.3 balance

- o For proper usage a sensitive balance is needed to make sure the enthalpic signal is precise
- For further information about the usage of the balance please check the user manual of your balance

# 3. sample preparation

### 3.1 cutting samples

- o Place the sample in the holes of your calibration discs
- Cut off the protruding sample flush
- o Weight the complete disc with sample | samples and note the weight of every single sample
- Between the single steps for every sample it is recommended to use the tare function of your balance



## 3.4 preheat sample

- If all samples are cutted and weighted properly place them in the crucible or on an inert sample carrier
- Place this crucible on your precalibrated Chip-DSC and heat up the calibration disc to 450 °C
   to make sure the calibration material has good contact to the calibration disc
- o To make sure they have good contact to the bottom and your disc is placed

# 4. use calibration disc

- Place the ready for use calibration disc in the crucible you want to calibrate and start calibration
- o Make sure all samples are at their place and have good contact
- o To validate the calibration, it is also possible to perform a test measurement and check