



institut für landtechnik

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# Process flow of alkalinity measurement in IEC 60456 5th edition

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# What is needed?

## ■ Spin extractor

Small (more then one) or Big



Figure J1 – Example of a large standard extractor



## 1. step: preparation

- Baskets and containers: clean with tap water
- Spin Extractor: Flushing + spinning + tilting





## 2. step: separation of load into bundles

- Each bundle
  - 1 sheet
  - 2 pillow cases
  - 6 towels

- Remaining items

- Strips

DO STEP 2 to 5  
WITHOUT  
BREAKS







## 3. step: weighing

### ■ Weigh separate





## 4. step: loading the spin extractor

### ■ Fold items and load in following order:

1. Sheet
2. Pillow cases
3. 5 towels
4. 6. towel flat on top

### ■ Load all bundles in extractors as fast as possible !!





## 5. step: extraction

- Two or more extractors run in parallel for 10 min



Take  
time

For 10  
min

Tilt at  
end

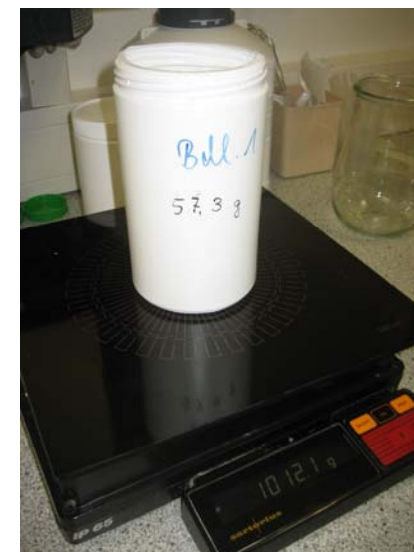






## 6. step: weighing

- Weigh load + extracted water

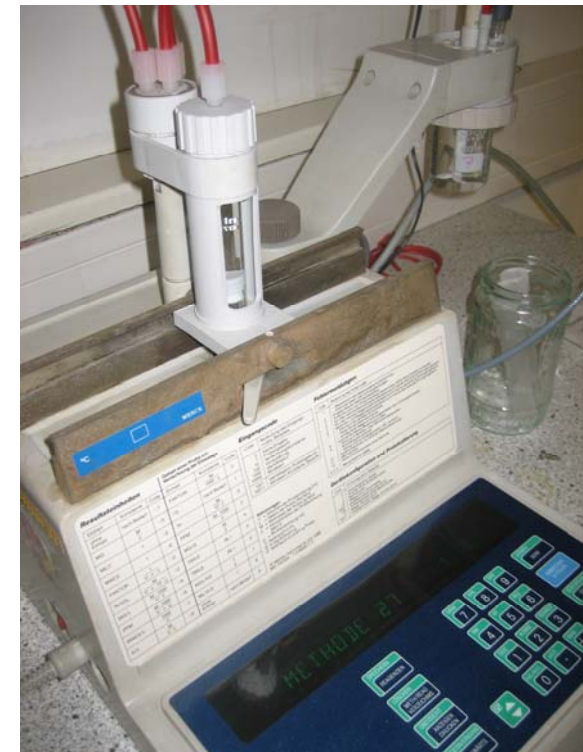






## 7. step: titration

- Prepare titrator (flush, check for air bubbles, calibrate, etc)
- Take sample (50 – 100 ml)
- (weigh sample)
- Titrate
- Repeat twice per extracted water for each bundle
- Titrate tap water





## 8. step: remaining items

- Extract for 10 min and weigh load and extracted water





**Thank you very much  
for your attention!**

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