DETERMINATION OF MOISTURE CONTENT AND LOSS ON DRYING

AIM:

To determine the moisture content and loss on drying.

REQUIRMENTS:

- Petridish
- ✤ Measuring cylinder
- Pipette
- Tray dryer
- Calcium carbonate
- ✤ Spatula
- ✤ Weighing balance

PROCEDURE:

- ✤ Take clean dry petridish and weight it (x)
- ♦ Weigh 10g of calcium carbonate powder and transfer to petridish and weight it
- Add sufficient amount of water with the help of pipette to the powder until slurry form.
- ✤ Again weigh the petridish and note down weight (y)
- Place the petridish in tray dryer and weigh it at every 5 min
- Allow it to dry until it's constant weight the down the constant dry weight (z)
- Calculate the percentage loss on drying and percentage moisture content for the given sample.

REPORT:

- ✤ The moisture content and loss on drying was determined
- \bullet The percentage of moisture content is =
- The loss on drying is =

Calculation:

Weight of empty petridish (x) = Weight of empty petridish + sample + water (y) = Weight of empty petridish + sample + water (After drying at every 5 minutes) =

Loss of drying = wwwappwwppp 0000 mmoopppppmmaaaa mii ppppaa ppaammppsaa

ppooppaass wwaappwwpppp oooo wwaapp ppaammppssaa

Percentage moisture content = ^{wwaappwwppp 0000 mmoopppppmaaaa mii ppppaa ppaammppsaa}

wwaappwwpppp oooo ppaadd ppaammppssaa