



218 Higgins Street
Humble, TX 77338
(281) 540-3208

Application Note 053116-1

HAWK Pyrolysis, TOC & Carbonate Carbon Instrument

Recommended Sample Weights

For TOC measurements, we recommend three main groupings:

- Samples anticipated to have TOC < 20%.
- Samples anticipated to have TOC > 20% and are coals.
- Samples anticipated to have TOC in the 10% to 20% range together with samples anticipated to have TOC > 20% but are not coals. An example of the latter group of samples is the Green River Formation.

1. Samples anticipated to have TOC < 10% should be weighed in the 50 mg to 250 mg range but we recommend using 70 mg for purposes of economy on sample quantity plus consistency. For this group of samples, one can weigh even up to the HAWK crucible's maximum weight of 400 mg, however, at weights greater than 250 mg, although the TOC values stay accurate, the S2 might get inaccurate.
2. Samples anticipated to have TOC >20% and are coals should be weighed at weights in the range of 5 mg to 8mg.
3. Samples anticipated to have TOC > 20% but are not coals should be weighed at weights in the 20 mg to 35 mg range and this would be suitable too, for samples that are anticipated to have TOC in the 10% to 20% range.