## QUALITY WORK INSTRUCTIONS (QWI) SULFUR ANALYSIS PROCEDURE FINENESS – ROTAP

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## 1.0 EQUIPMENT NEEDED

Flow Agent Rotap machine

## 2.0 PROCEDURE

- (1) Weigh 100 grams of sulfur. Set aside.
- (2) Add to the sulfur 5 grams of flow agent screened to pass the finest screen to be used.
- (3) Stack screens in order on the catch pan, coarsest to the finest, top to bottom. For example: #40, #80, #100, #200.
- (4) Pour sulfur/flow agent mixture on the top screen.
- (5) Place the screen stack on the Rotap machine, with cover on top of stack. Seat the stack between the base and the retainer on the top, and secure the bolts.
- (6) Set the timer for thirty (30) minutes and start the machine.
- (7) After timer goes off remove screens and weigh retained sulfur in each screen, starting with the top.
- (8) Use the formula below to calculate % of sulfur passing through sieve.

% through sieve = 100% - Weight of residue x 100
100 gram original sample weight

Note: Remember to report as an **Accumulative** % for screens as placed.