



**WORKSHEET FOR CONTROL OF ASPHALT MIXES
 AASHTO T 30, AASHTO T 176, AASHTO T 308, AND ASTM D 5821**

Project: _____ Source: _____
 Sample of _____ Lot No. _____ Sample No. _____
 Where sampled: _____ Time sampled: _____
 Sampled by: _____ Date: _____ Tested by: _____

ASPHALT CONTENT BY IGNITION

Oven model: NCAT Troxler Other **Weighing Method:** External Internal

Reported Ticket Information

- A. Furnace chamber set point, °C
- B. Total elapsed time, min:sec
- C. Initial sample mass, g
- D. Mass loss during ignition, g
- E. Percent loss, %
- F. Temperature compensation, %
- G. Job mix correction factor¹, %
- H. Corrected asphalt content, %

Recorded Data and Calculated Values

- I. Mass of basket assembly & sample before ignition, g
- J. Basket assembly tare mass, g
- K. Initial sample mass, g [I - J]
- L. Mass of basket assembly & residual aggregate, g
- M. Mass of residual aggregate, g [L - J]
- N. Mass of residual aggregate after washing, g
- O. Mass lost during washing, No. 200 (75 µm), g [M - N]
- P. Final corrected % asphalt by mass of mix

SIEVE ANALYSIS (AASHTO T 30)

Sieve Size	Mass ² Retained	Percent Retained	Percent Passing	Target Values	Allowable Deviation
1-inch (25 mm)					
¾-inch (19.0 mm)					
½-inch (12.5 mm)					
⅜-inch (9.5 mm)					
No. 4 (4.75 mm)					
No. 8 (2.36 mm)					
No. 10 (2.00 mm)					
No. 16 (1.18 mm)					
No. 30 (600 µm)					
No. 40 (425 µm)					
No. 50 (300 µm)					
No. 100 (150 µm)					
No. 200 (75 µm)					
Pan					
Washed [O]					
Total ³					
Residual mass [M]					

¹ Individual oven aggregate correction (calibration) factor.
² All masses are in grams.
³ Total mass should be within 0.2% of the mass of residual aggregate.

MOISTURE CONTENT (OVEN METHOD)

- Q. Mass of sample + container, initial
- R. Mass of sample container
- S. Mass of sample, initial [Q - R]
- T. Mass of sample + container, dry
- U. Moisture, % [100 * (Q - T) / S]

SAND EQUIVALENT (AASHTO T 176)

- Cylinder no.
- Time (20 min)
- Sand reading
- Clay reading
- Sand equivalent
- Average SE value

FRACTURED FACES (ASTM D 5821)

- V. Mass of fractured aggregate, g
- W. Mass of non-fractured aggregate, g
- X. % fractured, % [100 * V / (V + W)]