



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)] _____