

# NorthEast Transportation Training & Certification Program

## HMA Asphalt Content, Gradation & Marshall Volumetrics Test Report (T 329, T 309, T 30, T 166, T 209, T 245)

Date/Time:		Lab/Location:	
Weather:	Date Rec'd #:	Random Sample:	No <input type="checkbox"/>
Project:	Lab Login #:	Lot #:	
Contract #:	Material ID:	Sublot #:	
Contractor:	Material #:	Sample Location:	
Pay Item #:	Sample #:	Station:	
Source:	Sample Type:	QC <input type="checkbox"/>	Offset:
Plant Type:	Sampled By/Cert. #:		

Moisture Content (T 329)	Asphalt Content of HMA by Ignition Method (T 308)		
Sample Wet Mass (Mi):	Initial Sample Mass (Wsi):	PG Binder Mass (Ws - Wa):	
Sample Dry Mass (Mf):	Corrected Sample Mass (Ws):	% Agg. Loss by Ignition (Cf):	
Water Mass (C):	$(Wsi / (1 + (.01 * M)))$	%PG Binder (Pb):	
% Moisture (M):	Final Sample + Pan (Wap):	$((Ws - Wa) / Ws * 100) - Cf$	
$(100 * ((Mi - Mf) / Mi))$	Pan Tare Mass (P):	PG Binder JMF:	
<b>HMA Temperature</b>	Final Sample Mass (Wa):	Test Time, minutes:	
Sample Temp, °C:	$(Wap - P)$	Oven Set Point, °C:	

Mechanical Analysis of Extracted Aggregate (T 30)						
Sieve, in. (mm)	Mass Retained	Percent Retained	Percent Passing	Job Mix Formula	+ / - Tolerance	Variance
1 1/2 (37.5)			100.0			
1 (25)			100.0			
3/4 (19)			100.0			
1/2 (12.5)			100.0			
3/8 (9.5)			100.0			
#4 (4.75)			100.0			
#8 (2.36)			100.0			
#16 (1.18)			100.0			
#30 (600 µm)			100.0			
#50 (300 µm)			100.0			
#100 (150 µm)			100.0			
#200 (75 µm)			100.0			
PAN						
TOTAL:						

Bulk Specific Gravity of Compacted HMA (T 166)					
Specimen #	Mass in Air	Mass in H <sub>2</sub> O	SSD Mass	Volume	G <sub>mb</sub>

Maximum Specific Gravity of HMA (T 209)								
Specimen #	(A)	Bowl Method		Flask Method		Unit Weight	A = Sample D = Pycn. + H <sub>2</sub> O E = Pycn. + H <sub>2</sub> O + A	
		Pyc on weigh below	Pyc and Sample on Weigh Below	(D)	(E)			
Average:								

Specimen #	Volumetric Analysis				HMA Marshall Stability and Flow (T 245)				
	G <sub>sb</sub>	% Air Voids	VMA	VFA	Dial Reading	Corr. Factor	Stability	Corr. Stability	Flow
Average:									

Comments:

Tested by:	Reviewed by:
Certification #:	Certification #:
Date: <input type="checkbox"/>	Date: <input type="checkbox"/>