



WORKSHEET FOR IGNITION FURNACE BINDER CORRECTION FACTOR AASHTO T 308

Project: _____ Date: _____

Sample No.: _____ Tested by: _____

Target binder content, % by mass of Mix: _____ % by mass of Agg: _____ Test temperature, (°C): _____

Ignition Furnace Manufacturer: _____ Serial #: _____ Location of Furnace _____

	Trial No. 1	Trial No. 2
(A) Initial “battered” bowl mass, g		
(B) Final bowl mass ¹ , g		
(C) Bowl mass difference, (B – A), g		
(D) Dry aggregate mass, g		
(E) Aggregate & binder mass, g		
(F) Binder mass, (E – D), g		
(G) Corrected binder mass, (F – C), g		
(H) Actual binder content by mixture mass, (G / (D + G) * 100), %		
(I) Sample basket assembly mass, g		
(J) Sample basket assembly & mix mass ² , g		
(K) Mix mass ³ , (J – I), g		
(L) Ignition furnace binder content, % by mass of mix		
(M) Correction factor, (L – H), %	L1	L2
(N) Average correction factor ⁴ , ((L1 + L2) / 2), %	Average	
(O) Difference in correction factor ⁵ , (L1 – L2), %	Difference	

¹ Scrape the bowl until the final mass is within ± 0.5 grams of the initial “battered” mass.

² After placing the basket assembly and mix into the ignition furnace verify that the displayed mass and the mass recorded in (J) agree within ± 5 grams.

³ Be certain to enter (K), the mix mass into the ignition furnace control panel prior to initiating the burn cycle.

⁴ If the correction-factor exceeds 1.0%, lower the test temperature to 482 °C and repeat the test. Use the correction factor at 482 °C even if it exceeds 1.0%.

⁵ If the difference is greater than ± 0.15 percent, run two more samples and discard the high and low test results.

Remarks:



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Aggregate Gradation Correction Factor (% Passing)

Sieve Size	Trial #1	Trial #2	“blank”	Trial #1 Difference	Trial #2 Difference	Average Difference	Allowable Difference

Remarks: