

Sampling & Testing Guide-Minimum Frequency

October 19, 2010
Supersedes April 20, 2010

HOT MIX ASPHALT Section 2303 & 2213

Matls. IM 204
Appendix F (US) Units

MATERIAL OR CONSTRUCTION ITEM	TESTS	METHOD OF ACCEPTANCE & RELATED IMS	QUALITY CONTROL				INDEPENDENT ASSURANCE, & VERIFICATION S&T				REMARKS		
			SAMPLE BY	FREQ.	SAMPLE SIZE	TEST BY	REPORT	S&T TYPE	SAMPLE BY	FREQ.		SAMPLE SIZE	TEST BY
SOURCE INSPECTION													
Aggregates-Coarse (4127)		AS 209											
Aggregates-Fine (4127)		AS 209											
Hydrated Lime (4127)		AS 491.04											
Asphalt Binder		AS 437											
Emulsions & Cutbacks		AS 437											
Release Agent		AS 491.15											
Recycled Asphalt Shingles		AS 506											
PLANT INSPECTION													
Aggregates (2303)	Quality							V	DME 1/	20,000 Ton	50 lb.	CTRL	
Combined Aggregate (4127)	Gradation		RCE/ CONTR	1/lot	IM 301	CONTR		V	RCE/ CONTR	Sample 1/day, Test 1 st day + 20% Systems Approach*	IM 301	DME/ RCE	IM 216
	Moisture		CONTR	1 / half day	1000 gm	CONTR		IA					IM 216
													Dryer Drum Plants Only
AS-Approved Source ASD-Approved Shop Drawing S&T-Sampling & Testing		Cert A-Type A Certification Cert C-Type C Certification Cert D-Type D Certification											IA-Independent Assurance V-Verification

*A project approach may be applied at the discretion of the DME at the frequency 1/project.

NOTE: RCE/CONTR indicates that the Contractor shall assist in the sampling at the direction of and witnessed by the Project Engineer.

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			SAMPLE BY	FREQ.	SAMPLE SIZE	TEST BY	REPORT	S&T TYPE	SAMPLE BY	FREQ.		SAMPLE SIZE	TEST BY	REPORT
PLANT INSPECTION														
Mineral Filler								V	DME 1/	project	11 lb	DME	821278	
Asphalt Binder	DSR	AS Cert D						V	RCE/ CONTR	Sample 1/day Test 1 st 1/week 1/20,000 T of Mix Systems Approach	4 oz tin	DME		Log all shipments
	Quality							V	DME		1 qt	CTRL		
Cutback		AS 329						IA						Log all shipments
Emulsion Residue		AS 360						V	RCE 1/	project	1 qt	DME		Plastic bottle required
GRADE INSPECTION														
Uncompacted Mixture:	Lab Density & Lab Voids	321, 325G	RCE/ CONTR	As per 2303	40 lb	CONTR		V	RCE/ CONTR	As per 2303 Test 1/day Systems Approach	40 lb	DME		
	Moisture Sensitivity	AS 507 Article 2303, Section E,2 IM 510 App C						IA	RCE/ CONTR	Test 1 st Sample at 500 tons then sample 1/10,000 tons per 2303 until 1 st sample accepted (test as needed)	70 lb	CTRL		
Compacted Mixture	Density, Thickness & Voids	320, 337						V	RCE/ CONTR	Lot	Min 8/lot	RCE		
Smooth	hness	341	CONTR	100%	100%	CONTR		IA	DME	1 lot/project*		DME		
AS-Approved Source		Cert A-Type A Certification						V	DME 10%					
ASD-Approved Shop Drawing		Cert C-Type C Certification												
S&T-Sampling & Testing		Cert D-Type D Certification												
			RCE-Resident Construction Engineer/Project Engineer			DME-District Materials Engineer			CTRL-Central Materials Office			IA-Independent Assurance		
			CONTR-Contractor									V-Verification		

* A system approach may be applied at the discretion of the DME.

NOTE: A Verification sample for asphalt binder quality and aggregate quality not required under 2000 tons of mix.

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