Version: V03.50

Oklahoma Department of Transportation Mix Design Report

Asphalt Concrete, UTBWC, Type C Mat'l. Code: asco038
(Material Full Name and Material Code)

Insoluble ID: I1
(Design Type and Design Type ID)

Cummins Const Co P/S # m00556
(Producer/Supplier Name and Producer/Supplier Code)

U3qc0101803100
(Mix ID)

Cummins Const Co #2728 (Sawyer, OK) - 300TPH PLANT ID # m00556-03
(Plant Name and Plant ID)

Aggregate	Producer/Supplier	% USED
Pile # 5	Martin-Marietta (Sawyer, OK) P/S # m002311206	38
'D' Rock	Martin-Marietta (Sawyer, OK) P/S # m002311206	30
Man. Sand	Martin-Marietta (Sawyer, OK) P/S # m002311206	10
Coarse Scrns.	Martin-Marietta (Sawyer, OK) P/S # m002311206	22

Asphalt Cement: Asphaltic Cement Type PG 76-28 OK, acem001, Lion Oil Frontier (Muskogee, OK), m01021
(Material Full Name, Material Code, Producer/Supplier Name, Producer/Supplier Code)

Requires Form 93-E0 signed by the Department for production use.
-Oklahoma D.O.T. Materials-

Producer/Supplier:	Martin-Marietta (Sawyer, OK) P/S # m002311206	Martin-Marietta (Sawyer, OK) P/S # m002311206	Martin-Marietta (Sawyer, OK) P/S # m002311206	Martin-Marietta (Sawyer, OK) P/S # m002311206									
Sieve Size	**Pile # 5**	**'D' Rock**	**Man. Sand**	**Coarse Scrns.**					**Comb. Agg.**	***JMF***	***Min.***	***Max.***	***% Tol. (±)***
3/4 in (19 mm)	100	100	100	100					100	***100***			
1/2 in (12.5 mm)	74	100	100	100					90	***90***	*85*	*95*	*5*
3/8 in (9.5 mm)	17	94	100	97					66	***66***			
#4 (4.75 mm)	3	29	99	83					38	***38***	*34*	*42*	*4*
#8 (2.36 mm)	3	8	70	58					23	***23***	*19*	*27*	*4*
#16 (1.18 mm)	2	3	47	45					16	***16***			
#30 (.600 mm)	2	3	34	30					12	***12***			
#50 (.300 mm)	1	3	25	26					10	***10***			
#100 (.150 mm)	1	2	12	19					6	***6***			
#200 (.075 mm)	0.8	1.6	5.0	12.9					4.1	***4.1***	*3.1*	*5.1*	*1.0*
AC Content %									5.0	***5.0***	*4.7*	*5.3*	*0.3*

	°F (°C)	Required
Mix temperature @ discharge from mixer:	325 (163)	± 20 °F (± 10 °C)
Optimum roadway compaction temperature:	300 (149)	
Laboratory mixing temperature:	325 (163)	
Laboratory compaction temperature:		

Tests on Asphalt Cement	Found
Specific Gravity @ 77 ° F	1.0100

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Tests on Aggregates		Required		Units
Contabro		N/A		%
F.A.A. %U	49	40	min.	%
Flat and Elongated		22	max.	%
Fractured Faces	100/100	100/85	min.	%
Insoluble Residue	99.5	65	min.	%
LA Abrasion	35	35	max.	%
Micro-Deval	9.4	18	max.	%
Sand Equivalent	81	45	min.	%
IOC	0.44			%
Gse	2.552			
Gsb	2.518			

TSR 0.98 0.80 max. (Design)

Compacted Wt. (lbs/sy/1" thick) = 104.3 @ 5.0 % Asphalt Cement

Drain-down(%)= 0.03 0.10 max.

MEETS SPECIFICATION REQUIREMENTS PER SPECIAL PROVISION 708-26(a-f) 09

Comments:

Last Modified By: Smith, Jerry D. jsmith
(User Name and User ID)

Date: 8/28/2018
(mm/dd/yyyy)