Version: V03.40

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)

MPC Materials P/S # m00906
(Producer/Supplier Name and Producer/Supplier Code)

U3pv0221800100
(Mix ID)

MPC Materials - Markwell #10-165 (Newcastle) PLANT ID # m00906-01
(Plant Name and Plant ID)

Aggregate	Producer/Supplier	% USED
5/8" Chips	Hanson Aggregates, WRP Inc (Davis, OK) P/S # m001985008	55
5/8" Chips	Dolese Co. (Richards Spur, OK) P/S # m002761601	12
Scrns.	Dolese Co. (Richards Spur, OK) P/S # m002761601	33

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:	Hanson Aggregates, WRP Inc (Davis, OK) P/S # m001985008	Dolese Co. (Richards Spur, OK) P/S # m002761601	Dolese Co. (Richards Spur, OK) P/S # m002761601										
Sieve Size	5/8" Chips	5/8" Chips	Scrns.						Comb. Agg.	JMF	Min.	Max.	% Tol. (±)
3/4 in (19 mm)	100	100	100						100	100			
1/2 in (12.5 mm)	77	93	100						87	87	82	92	5
3/8 in (9.5 mm)	51	62	100						68	68			
#4 (4.75 mm)	10	9	95						38	38	34	42	4
#8 (2.36 mm)	1	3	61						21	21	17	25	4
#16 (1.18 mm)	1	2	45						16	16			
#30 (.600 mm)	1	1	27						10	10			
#50 (.300 mm)	1	1	23						8	8			
#100 (.150 mm)	1	1	17						6	6			
#200 (.075 mm)	0.6	1.1	13.1						4.8	4.8	3.8	5.8	1.0
AC Content %									4.6	4.6	4.3	4.9	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
F.A.A. %U		40	min.	%
Flat and Elongated	0	22	max.	%
Fractured Faces	100/100	100/85	min.	%
Insoluble Residue	68.3	65	min.	%
LA Abrasion	28	35	max.	%
Micro-Deval	13.9	18	max.	%
Sand Equivalent	67	45	min.	%
IOC	0.21			%
Gse	2.648			
Gsb	2.600			

TSR 0.90 0.80 max. (Design)

Compacted Wt. (lbs/sy/1" thick) = 108.4 @ 4.6 % Asphalt Cement

Drain-down(%)= 0.01 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: 4/5/2018
(mm/dd/yyyy)