



Oklahoma Department of Transportation Mix Design Report

Asphalt Concrete, UTBWC, Type C Mat'l. Code: asco038
 (Material Full Name and Material Code)
 T. J. Campbell P/S # m00570
 (Producer/Supplier Name and Producer/Supplier Code)
 T. J. Campbell (South OKC, OK) - 350TPH PLANT ID # m00570-02
 (Plant Name and Plant ID)

Insoluble ID: I1
 (Design Type and Design Type ID)
 U3pv0261500200
 (Mix ID)

Aggregate	Producer/Supplier	% USED
5/8" Chips	Hanson Aggregates, WRP Inc (Davis, OK) P/S # m001985008	60
Scrns.	Hanson Aggregates, WRP Inc (Davis, OK) P/S # m001985008	30
Man. Sand	Martin-Marietta (Davis, OK) P/S # m002285005	10
Asphalt Cement: Asphaltic Cement Type PG 76-28 OK, acem001, Valero (Ardmore, OK), m00352 (Material Full Name, Material Code, Producer/Supplier Name, Producer/Supplier Code)		

Sieve Size	Producer/Supplier:			Comb. Agg.	JMF	Min.	Max.	% Tol. (±)
	Hanson Aggregates, WRP Inc (Davis, OK) P/S # m001985008	Hanson Aggregates, WRP Inc (Davis, OK) P/S # m001985008	Martin-Marietta (Davis, OK) P/S # m002285005					
5/8" Chips	100	100	100	100	100			
3/4 in (19 mm)	70	100	100	82	82	77	87	5
1/2 in (12.5 mm)	39	100	99	63	63			
3/8 in (9.5 mm)	4	86	95	38	38	34	42	4
#4 (4.75 mm)	1	60	57	24	24	20	28	4
#8 (2.36 mm)	1	41	30	16	16			
#16 (1.18 mm)	1	29	17	11	11			
#30 (.600 mm)	1	23	11	9	9			
#50 (.300 mm)	1	16	6	6	6			
#100 (.150 mm)	0.6	11.8	3.9	4.3	4.3	3.3	5.3	1.0
#200 (.075 mm)				4.6	4.6	4.3	4.9	0.3
AC Content %								

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

Mix temperature @ discharge from mixer: 325 (163) °F (°C) **Required** ± 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	45	40 min. %
Flat and Elongated	0	22 max. %
Fractured Faces	100/100	100/85 min. %
Insoluble Residue	82.6	65 min. %
LA Abrasion	24	35 max. %
Micro-Deval	9.7	18 max. %
Sand Equivalent	64	45 min. %
IOC	0.87	%
Gse	2.738	
Gsb	2.657	

TSR 0.88 0.80 max. (Design)
 Compacted Wt. (lbs/sy/1" thick) = 111.7 @ 4.6 % Asphalt Cement
 Drain-down(%)= 0.04 0.10 min.

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

Comments:
 Last Modified By: Schratwieser, Edward P. eschrattw Date: 3/18/2015
 (User Name and User ID) (mm/dd/yyyy)