



Oklahoma Department of Transportation Mix Design Report

Asphalt Concrete, UTBWC, Type C Mat'l. Code: asco038

Insoluble ID: I1

(Material Full Name and Material Code)

(Design Type and Design Type ID)

Cornell Const Co P/S # m00309

U3qc0361800100

(Producer/Supplier Name and Producer/Supplier Code)

(Mix ID)

Cornell Const Co (Portable) - 400TPH PLANT ID # m00309-01

(Plant Name and Plant ID)

Aggregate	Producer/Supplier	% USED
5/8" Chips	Martin-Marietta (Snyder, OK) P/S # m002323802	64
Scrs.	Martin-Marietta (Snyder, OK) P/S # m002323802	36
Asphalt Additive, Anti-Strip PAVEGRIP 519 addi003 Pre Tech Industries m00705		
(Product Name, Material Code, Producer/Supplier Name, Producer/Supplier Code)		
Asphalt Cement: Asphaltic Cement Type PG 76-28 OK, acem001, Lion Oil Co. (Muskogee, OK), m00511		
(Material Full Name, Material Code, Producer/Supplier Name, Producer/Supplier Code)		

Sieve Size	5/8" Chips	Scrs.	Comb. Agg.	Tol. (%)			% Tol. (±)
	JMF	Min.		Max.			
3/4 in (19 mm)	100	100	100				
1/2 in (12.5 mm)	91	100	94	94	89	99	5
3/8 in (9.5 mm)	65	100	78	78			
#4 (4.75 mm)	8	91	38	38	34	42	4
#8 (2.36 mm)	3	70	27	27	23	31	4
#16 (1.18 mm)	2	48	19	19			
#30 (.600 mm)	2	33	13	13			
#50 (.300 mm)	2	23	10	10			
#100 (.150 mm)	1	15	6	6			
#200 (.075 mm)	0.8	12.0	5.0	5.0	4.0	6.0	1.0
AC Content %			4.6	4.6	4.3	4.9	0.3
Asphalt Additive, Anti-Strip %			0.5				

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

°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	45	40 min. %
Flat and Elongated	0	22 max. %
Fractured Faces	100/100	100/85 min. %
Insoluble Residue	98.8	65 min. %
LA Abrasion	20	35 max. %
Micro-Deval	3.4	18 max. %
Sand Equivalent	71	45 min. %
IOC	0.14	%
Gse	2.628	
Gsb	2.602	

TSR 0.84 0.80 max. (Design)
 Compacted Wt. (lbs/sy/1" thick) = 107.7 @ 4.6 % 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: 6/14/2018
(mm/dd/yyyy)