Version: V03.40

Oklahoma Department of Transportation Mix Design Report

Asphalt Concrete, Type S6 (PG 64-22 OK) Mat'l. Code: asco018
(Material Full Name and Material Code)

Binder - Recycled ID: B2
(Design Type and Design Type ID)

Evans & Assoc Const Co P/S # m00557
(Producer/Supplier Name and Producer/Supplier Code)

S6pv0111400101
(Mix ID)

Evans & Assoc Const Co (Ponca City, OK) - 400TPH PLANT ID # m00557-01
(Plant Name and Plant ID)

Aggregate	Producer/Supplier	% USED
Man. Sand	APAC-Central #066 @ Pawhuska, OK P/S # m001505703	30
Scrns.	APAC-Central #066 @ Pawhuska, OK P/S # m001505703	20
Drag Sand	Mine Chat @ Tri City Area P/S # MineChat	15
Sand	Sober Sand Co. (Ponca City, OK) P/S # m005373601	10
Fine R.A.P.	Contractor / Project Site P/S # Contractor	25

Asphalt Cement: Asphaltic Cement Type PG 64-22 OK, acem003, Valero (Arkansas City, KS), m00512
(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:	APAC-Central #066 @ Pawhuska, OK P/S # m001505703	APAC-Central #066 @ Pawhuska, OK P/S # m001505703	Mine Chat @ Tri City Area P/S # MineChat	Sober Sand Co. (Ponca City, OK) P/S # m005373601	Contractor / Project Site P/S # Contractor									
Sieve Size	Man. Sand	Scrns.	Drag Sand	Sand	Fine R.A.P.				Comb. Agg.	JMF	Min.	Max.	% Tol. (±)	
3/8 in (9.5 mm)	100	100	100	100	100				100	**100**	100	100	0	
#4 (4.75 mm)	94	100	99	100	94				97	**92**	85	99	7	x
#8 (2.36 mm)	53	80	81	95	75				72	**65**	60	70	5	x
#16 (1.18 mm)	25	51	45	83	55				47	**42**	38	46	4	x
#30 (.600 mm)	14	35	23	63	42				31	**28**	24	32	4	x
#50 (.300 mm)	8	26	9	45	29				21	**19**	15	23	4	x
#100 (.150 mm)	5	21	4	5	20				12	**12**	9	15	3	
#200 (.075 mm)	4.2	17.3	2.7	0.7	15.1				9.0	**9.0**	7.0	11.0	2	
AC Content %					5.6				6.3	**6.3**	5.9	6.7	0.4	

	°F (°C)	Required
Mix temperature @ discharge from mixer:	305 (152)	± 20 °F (± 10 °C)
Optimum roadway compaction temperature:	290 (143)	
Laboratory mixing temperature:	325 (163)	
Laboratory compaction temperature:	300 (149)	

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

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Tests on Compressed Mixtures (@ Design AC)

	# Gyr.	% Density of Gmm	% Density Required
Nini	6	87.3	85.5 - 91.5
Ndes	50		96.0

Tests on Aggregates		Required		Units
Durability Index	76	40	min.	%
F.A.A. %U		N/A		%
Flat and Elongated	0	10	max.	%
Fractured Faces	100/100	85/80	min.	%
Insoluble Residue		N/A		%
LA Abrasion	26	40	max.	%
Micro-Deval	16.3	N/A		%
Permeability	8.4	12.5	max.	10^{-5}cm/s
Sand Equivalent	91	40	min.	%
IOC	0.27			%
Gse	2.662			
Gsb	2.609			
Specimen Weight	4625			g

Tests on Compressed Mixtures

%AC	Gmb	Gmm	% Density of Gmm	% Density Required	% VMA	% VMA Required	% VFA	
5.8	2.287	2.431	94.1	Design / Field	17.4	Design / Field	66.1	% VFA Required
6.3	2.316	2.413	96.0	96.0 / 94.5 - 97.4	16.8	16.5 / 16.0	76.2	75 - 79
6.8	2.335	2.396	97.5		16.6		84.9	

Dust Prop.
1.8
1.6
1.5

Dust Prop. Req. 0.6 - 1.6

ITS (PSI) 197.1 N/A min.
TSR 0.84 0.80 / 0.75 min. (Design / Field)
Compacted Wt. (lbs/sy/1" thick) = 106.2 @ 6.3 % Asphalt Cement
4.9 % New Asphalt Cement

x 1st JMF Revision

Hamburg Rut Test Depth (mm) 1.05 12.50 max. @ 10,000 cycles

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

Comments: REVISED (GRAD.) Effective 11/6/14 per contractor's request.

Last Modified By: Schratwieser, Edward P. eschratw
(User Name and User ID)

Date: 11/12/2014
(mm/dd/yyyy)