



Asphalt Concrete, Type S4 (PG 76-28 OK) Mat'l. Code: asco010
 (Material Full Name and Material Code)

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

Emery Sapp & Sons, Inc. P/S # m00907
 (Producer/Supplier Name and Producer/Supplier Code)

S4pv0441700500
 (Mix ID)

Emery Sapp & Sons, Inc.(Joplin, MO) PLANT ID # m00907-01
 (Plant Name and Plant ID)

Aggregate	Producer/Supplier	% USED
3/4" Chips	Anchor Stone (Jasper Co.Quarry, Joplin, MO) P/S # m002118301	18
Mine Chat	Mine Chat @ Tri City Area P/S # MineChat	27
Drag Sand	Mine Chat @ Tri City Area P/S # MineChat	15
Scrns.	Anchor Stone (Jasper Co.Quarry, Joplin, MO) P/S # m002118301	28
Sand (Unlisted Source)	Muskogee Sand (Porter, OK)	12

Asphalt Cement: Asphaltic Cement Type PG 76-28 OK, acem001, HollyFrontier (Catoosa, OK), m01028
 (Material Full Name, Material Code, Producer/Supplier Name, Producer/Supplier Code)

Producer/Supplier:	Anchor Stone (Jasper Co.Quarry, Joplin, MO) P/S # m002118301	Mine Chat @ Tri City Area P/S # MineChat	Mine Chat @ Tri City Area P/S # MineChat	Anchor Stone (Jasper Co.Quarry, Joplin, MO) P/S # m002118301	Muskogee Sand (Porter, OK)					
Sieve Size	3/4" Chips	Mine Chat	Drag Sand	Scrns.	Sand (Unlisted Source)	Comb. Agg.	JMF	Min.	Max.	% Tol. (±)
3/4 in (19 mm)	100	100	100	100	100	100	100	100	100	0
1/2 in (12.5 mm)	62	100	100	100	100	93	93	86	100	7
3/8 in (9.5 mm)	30	98	100	100	100	87	87	80	94	7
#4 (4.75 mm)	5	50	99	96	98	68	68	61	75	7
#8 (2.36 mm)	3	17	77	71	93	48	48	43	53	5
#16 (1.18 mm)	3	9	50	51	84	35	35	31	39	4
#30 (.600 mm)	3	5	29	37	69	25	25	21	29	4
#50 (.300 mm)	3	4	14	27	40	16	16	12	20	4
#100 (.150 mm)	3	3	5	20	6	8	8	5	11	3
#200 (.075 mm)	2.0	1.9	2.8	14.7	0.9	5.5	5.5	3.5	7.5	2
AC Content %						5.8	5.8	5.4	6.2	0.4

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

Mix temperature @ discharge from mixer: 325 (163) ± 20 °F (± 10 °C)
 Optimum roadway compaction temperature: 305 (152)
 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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	% Density		
	# Gyr.	of Gmm	% Density Required
Nini	8	88.3	85.5 - 89.0
Ndes	80		96.0

Tests on Aggregates	Required	Units
Durability Index	71	40 min. %
F.A.A. %U		N/A
Flat and Elongated	2	10 max. %
Fractured Faces	100/100	98/95 min. %
Insoluble Residue	54.3	40 min. %
LA Abrasion	25.8	40 max. %
Micro-Deval	17.8	25 max. %
Permeability	5.8	12.5 max. 10 ⁻⁵ cm/s
Sand Equivalent	81	50 min. %
IOC	0.20	%
Gse	2.627	
Gsb	2.549	
Specimen Weight	4670	g

%AC	Gmb	Gmm	% Density				% VFA Required	
			of Gmm	% Density Required	% VMA	% VMA Required		
5.0	2.273	2.432	93.5	Design / Field	15.3	Design / Field	57.5	% VFA Required
5.5	2.294	2.414	95.0	96.0 / 94.5 - 97.4	15.0	14.5 / 14.0	66.7	72 - 77
6.0	2.320	2.397	96.8		14.4		77.8	

Dust Prop. 1.4 Dust Prop. Req. 0.6 - 1.6
 ITS (PSI) 126.8 75 min.
 TSR 0.90 0.80 / 0.75 min. (Design / Field)
 Compacted Wt. (lbs/sy/1" thick) = 105.7 @ 5.8 % Asphalt Cement

Hamburg Rut Test Depth (mm) 1.75 12.50 max. @ 20,000 cycles

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

Comments:

Last Modified By: Williams, Bobby Ray bwilli01
 (User Name and User ID)

Date: 3/13/2017
 (mm/dd/yyyy)