



Oklahoma Department of Transportation Mix Design Report

Asphalt Concrete, Type 1/2" PFC Mat'l. Code: asco029
(Material Full Name and Material Code)
MPC Materials P/S # m00906
(Producer/Supplier Name and Producer/Supplier Code)
MPC Materials - Markwell (Newcastle) PLANT ID # m00906-01
(Plant Name and Plant ID)

Insoluble ID: I1
(Design Type and Design Type ID)
WP1pv0441300600
(Mix ID)

Table with columns: Aggregate, Producer/Supplier, % USED. Rows include 3/4" Chips, 5/8" Chips, and 3/8" Chips with their respective suppliers and percentages.

Warm Mix Asphalt (WMA) Technology: EVOTHERM M1A (Chem. Add.) qual028 MWV Specialty Chemicals, Asph. Innov. m00941
Asphalt Cement: Asphaltic Cement Type PG 76-28 OK, acem001, Lion Oil Co. (Muskogee, OK), m00511

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

Table with columns: Producer/Supplier, Sieve Size, and % Tol. Rows include 3/4" Chips, 5/8" Chips, 3/8" Chips, and sieve sizes from 3/4 in to #200.

Cellulose Fiber %
Warm Mix Asphalt (WMA) Additive % 0.4
°F (°C) Required
Mix temperature @ discharge from mixer: 265 (129) ± 20 °F (± 10 °C)
Optimum roadway compaction temperature: 235 (113)
Laboratory mixing temperature: 270 (132)
Laboratory compaction temperature: 235 (113)

Tests on Asphalt Cement Found 1.0100

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Table with columns: Tests on Aggregates, Required, Units. Rows include Durability Index, F.A.A. %U, Flat and Elongated, Fractured Faces, etc.

Tests on Compressed Mixtures (@ Design AC) Ndes 50 82.0 max.

Tests on Compressed Mixtures
% Density Required Design / Field
Compacted Wt. (lbs/sy/1" thick) = 93.6 @ 6.0 % Asphalt Cement
Drain-down(%)= 0.12 300 max.

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

Comments:
Last Modified By: Schratwieser, Edward P. eschrattw Date: 1/15/2014 (User Name and User ID) (mm/dd/yyyy)