

REVISED SPG SPECIFICATION

by

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Product 5-6616-01-P3

Project 5-6616-01

Project Title: Statewide Implementation of the Surface Performance-Graded (SPG) Specification
for Seal Coat Binders in Service

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Revised SPG Specification.

The SPG grades are examples, and they can be extended in both directions of the temperature spectrum using 3°C increments.	Performance Grade											
	SPG 64				SPG 67				SPG 70			
	-13	-16	-19	-22	-13	-16	-19	-22	-13	-16	-19	-22
Average 7-day Maximum Surface Pavement Design Temperature, °C	<64				<67				<70			
Minimum Surface Pavement Design Temperature, °C	>-13	>-16	>-19	>-22	>-13	>-16	>-19	>-22	>-13	>-16	>-19	>-22
Original Binder												
Dynamic Shear AASHTO T 315/ASTM D7175 $G^*/\sin \delta$, Minimum: 0.65 kPa Test Temperature @10 rad/s, °C	64				67				70			
Dynamic Shear Strain Sweep AASHTO T 315/ASTM D7175 % strain @ 0.8G _i *, Minimum: 17.5 Test Temperature @10 rad/s linear loading from 1-50% strain, 1 sec delay time with measurement of 20-30 increments, °C	25				25				25			
Pressure Aging Vessel (PAV) Residue (AASHTO R30)												
PAV Aging Temperature, °C	100				100				100			
Creep Stiffness AASHTO T 313/ASTM D6648 S, Maximum: 500 MPa Test Temperature @ 8s, °C	-13	-16	-19	-22	-13	-16	-19	-22	-13	-16	-19	-22
Shear Strain Sweep G _i *, Maximum: 2.5 MPa Test Temperature @10 rad/s linear loading at 1% strain and 1 sec delay time, °C	25				25				25			

