

Material and Application Guide

ASP#9 Steel Furnace Slag – Levy Plant #3



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Material: Steel Furnace Slag

Product: ASP#9 – Commercial (Levy)

Location: Levy Plant #3 – State Pit #82-21

Application: Dense graded aggregate for asphaltic concrete

Description: A dense graded aggregate, produced by crushing and screening Steel Furnace Slag. A light gray to black aggregate formed simultaneously with the production of steel in a steel furnace. The particles are sized from 5/8" (16.0mm) to zero (dust).



ASP#9 Steel Furnace Slag – Actual size shown

Specifications: Commercial (Levy)

Steel Furnace Slag is an approved material for use in Michigan Department of Transportation projects as an asphaltic concrete aggregate, as detailed in the in Michigan Department of Transportation "2003 Standard Specifications for Construction", section 902. ASP#9 Steel Furnace Slag conforms to all the requirements of the Edw. C. Levy Co. specifications for ASP#9 Steel Furnace Slag

Gradation:

U.S. Sieve	5/8"	1/2"	3/8"	#4	#8	#16	#30	#50	#100	#200	LBW
Metric Sieve	16.0mm	12.5mm	9.5mm	4.75mm	2.36mm	1.18mm	600 μ m	300 μ m	150 μ m	75 μ m	
Specification	100	95-100	80-95	50-80	35-60	20-55	15-45	10-35	-	8-15	-
2008 Average	100	98	87	63	46	34	27	22	16	10	8.7

Physical Properties:

- ASTM C 29, Loose Unit Weight (Average of last 10 tests) – 120 lb/ft³
- ASTM C 29, Rodded Unit Weight (Average of last 10 tests) – 133 lb/ft³
- ASTM C 128, Bulk Specific Gravity Dry (Average of last 3 tests) – 3.39
- ASTM C 128, Bulk Specific Gravity SSD (Average of last 3 tests) – 3.45
- ASTM C 128, Absorption (Average of last 3 tests) – 1.9%
- ASTM C 1252, Uncompacted Void Content, Method A – 48%
- MTM 118, Angularity Index of Fine Aggregates – 6.2
- Aggregate Wear Index (AWI) – 418 (MDOT 2003)

General Usage Guide:

The ASP#9 Steel Furnace Slag should be blended into the hot mix asphalt mixture along with other coarse and fine aggregates, asphalt cement and any other special additives in the proportions detailed in the mix design.

**PLEASE NOTE THAT STEEL FURNACE SLAG IS NOT TO BE USED IN
ANY CONFINED APPLICATIONS, SUCH AS BASE COURSES UNDER
PAVEMENTS OR STRUCTURES OR AS AN AGGREGATE IN PORTLAND
CEMENT CONCRETE**