

# Material and Application Guide

## 22X Steel Furnace Slag – Levy Plant #3



**EDW. C. LEVY CO.**

8800 Dix Avenue, Detroit, Michigan 48209

Phone (313) 429-LEVY

Fax (313) 429-2448

e-mail [sales@edwclevy.net](mailto:sales@edwclevy.net)

<http://www.edwclevy.com>

**Material:** Steel Furnace Slag

**Product:** 22X – Wayne County

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

**Applications:** Road shoulder material  
Surfacing for unpaved driveways, roads and parking lots

**Description:** A dense graded base 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 1" (25.0mm) to zero (dust).



**22X Steel Furnace Slag – Actual size shown**

**Specifications:** Wayne County Department of Public Services

22X Steel Furnace Slag conforms to all the requirements of Wayne County Department of Public Services, specifications for 22X Coarse Aggregate

**Gradation:**

U.S. Sieve	1"	¾ "	½"	¾"	#4	#8	#16	#30	#50	#100	#200
Metric Sieve	25.0mm	19.0mm	12.5mm	9.5mm	4.75mm	2.36mm	1.18mm	600 $\mu$ m	300 $\mu$ m	150 $\mu$ m	75 $\mu$ m
Specification	100	90-100	-	60-90	-	20-50	-	-	-	-	-
Avg. Gradation	<b>100</b>	<b>100</b>	<b>90</b>	<b>78</b>	<b>55</b>	<b>39</b>	<b>28</b>	<b>22</b>	<b>17</b>	<b>11</b>	<b>6</b>

**Physical Properties:**

- Loss By Washing – 6% (Specification 3% – 13%)
- ASTM C 29, Loose Unit Weight – 117 lb/ft<sup>3</sup>
- ASTM C 29, Rodded Unit Weight – 128 lb/ft<sup>3</sup>

**General Usage Guide:**

The 22X Steel Furnace Slag should be placed 6" to 18" thick, depending upon ground conditions and design loadings, in lifts not exceeding 8". Prior to the placement of any base material, the grade should be compacted and trimmed to the design density & elevations and be free of any standing water and not in a frozen condition. Base material should be compacted at optimum moisture content (approximately 8% to 10%) to 95% to 100% relative density or to the compaction level as specified in the design plans.

**Field Estimating Quantities (Compacted in Place):**

	100 sq. yd.	200 sq. yd.	500 sq. yd.	1,000 sq. yd.	2,000 sq. yd.	5,000 sq. yd.
6" Deep	37 tons	73 tons	183 tons	367 tons	733 tons	1,833 tons
8" Deep	49 tons	98 tons	244 tons	489 tons	978 tons	2,444 tons
10" Deep	61 tons	122 tons	306 tons	611 tons	1,222 tons	3,056 tons
12" Deep	73 tons	147 tons	367 tons	733 tons	1,467 tons	3,667 tons

**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**

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