

Material and Application Guide

29A Blast Furnace Slag – Levy Plant #2



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Material: Blast Furnace Slag

Product: MDOT – 29A

Location: Levy Plant #2 – State Pit #82-20

Application: Coarse aggregate for chip and seal road surfacing

Description: An open graded coarse aggregate, produced by crushing and screening air-cooled iron Blast Furnace Slag. A light brown to gray crystalline aggregate, formed simultaneously with the production of iron in a blast furnace. The particles are sized from 1/2" (12.5mm) to #8 mesh (2.36mm).



29A Blast Furnace Slag – Actual size shown

Specifications: Michigan Department of Transportation

29A Blast Furnace Slag conforms to all the requirements of Michigan Department of Transportation "2003 Standard Specifications for Construction", section 902 "Aggregates"

Gradation:

U.S. Sieve	1/2"	3/8"	#4	#8	LBW
Metric Sieve	12.5mm	9.5mm	4.75mm	2.36mm	
Specification	100	90-100	10-30	0-10	3.0 max
Jan 2009 – June 2009 Average	100	99	18	8	2.0

Physical Properties:

- Shipping Moisture – 5.8%
- ASTM C 29, Loose Unit Weight (2008 Average) – 78 lb/ft³
- ASTM C 29, Rodded Unit Weight (2008 Average) – 84 lb/ft³
- ASTM C 127, Bulk Specific Gravity Dry (2008 Average) – 2.44
- ASTM C 127, Bulk Specific Gravity SSD (2008 Average) – 2.50
- ASTM C 127, Absorption (2008 Average) – 2.6%
- ASTM C 88, Soundness of Aggregate by Use of Magnesium Sulfate – 2% loss
- MTM 111, Aggregate Wear Index (AWI) – 379 (MDOT 2001)

General Usage Guide:

After application of the asphalt emulsion, the 29A Blast Furnace Slag should be evenly spread over the emulsion, followed by compaction to embed the aggregate particles.

Field Estimating Quantities:

Typical 29A Blast Furnace Slag requirements per 1 sq. yd.	20 – 24 lbs
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