



Designation: D5106 – 22

Standard Specification for Steel Slag Aggregates for Asphalt Paving Mixtures¹

This standard is issued under the fixed designation D5106; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This specification covers crushed steel slag coarse and fine aggregates suitable for use in asphalt paving mixtures.

1.2 Steel slag coarse and fine aggregates are currently being used entirely (**Note 1**) or combined with other mineral aggregates, such as those covered in Specification **D692/D692M** or **D1073**, to produce paving mixtures similar to those described in Specification **D3515** or **D4215**.

NOTE 1—When 100 % of the coarse aggregate in an asphalt mixture is steel slag, the amount of steel slag fines in that mixture may be limited to prevent bulking.

1.3 The values stated in SI units are to be regarded as standard. No other units of measurement are included in this standard.

NOTE 2—Sieve size is identified by its standard designation in Specification **E11**. The alternative designation given in parentheses is for information only and does not represent a different standard sieve size.

1.4 The text of this specification references notes and footnotes which provide explanatory material. These notes and footnotes (excluding those in tables and figures) shall not be considered as requirements of the standard.

1.5 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 ASTM Standards:²

C88/C88M Test Method for Soundness of Aggregates by Use of Sodium Sulfate or Magnesium Sulfate

¹ This specification is under the jurisdiction of ASTM Committee **D04** on Road and Paving Materials and is the direct responsibility of Subcommittee **D04.50** on Aggregate Specifications.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

C117 Test Method for Materials Finer than 75-μm (No. 200) Sieve in Mineral Aggregates by Washing
C125 Terminology Relating to Concrete and Concrete Aggregates
C131/C131M Test Method for Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine
C136/C136M Test Method for Sieve Analysis of Fine and Coarse Aggregates
C142/C142M Test Method for Clay Lumps and Friable Particles in Aggregates
D8 Terminology Relating to Materials for Roads and Pavements
D75/D75M Practice for Sampling Aggregates
D448 Classification for Sizes of Aggregate for Road and Bridge Construction
D692/D692M Specification for Coarse Aggregate for Asphalt Paving Mixtures
D1073 Specification for Fine Aggregate for Asphalt Paving Mixtures
D3319 Practice for the Accelerated Polishing of Aggregates Using the British Wheel
D3515 Specification for Hot-Mixed, Hot-Laid Bituminous Paving Mixtures (Withdrawn 2009)³
D3665 Practice for Random Sampling of Construction Materials
D4215 Specification for Cold-Mixed, Cold-Laid Asphalt Paving Mixtures
D4318 Test Methods for Liquid Limit, Plastic Limit, and Plasticity Index of Soils
D4792/D4792M Test Method for Potential Expansion of Aggregates from Hydration Reactions
D4867/D4867M Test Method for Effect of Moisture on Asphalt Concrete Paving Mixtures
D5711 Test Method for Determining the Adherent Coating on Coarse Aggregates (Withdrawn 2012)³
D5821 Test Method for Determining the Percentage of Fractured Particles in Coarse Aggregate
E11 Specification for Woven Wire Test Sieve Cloth and Test Sieves

³ The last approved version of this historical standard is referenced on www.astm.org.