



Designation: D 693 – 98

Standard Specification for Crushed Aggregate for Macadam Pavements¹

This standard is issued under the fixed designation D 693; 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.

This standard has been approved for use by agencies of the Department of Defense.

1. Scope

1.1 This specification covers crushed aggregate suitable for use in the construction of dry- or water-bound macadam base courses and bituminous penetration macadam base and surface courses of pavements.

1.2 The values stated in SI units are to be regarded as standard. The inch-pound units, shown in parentheses, are for information only.

2. Referenced Documents

2.1 ASTM Standards²:

- C 29/C29M Test Method for Unit Weight and Voids in Aggregate³
- C 88 Test Method for Soundness of Aggregates by Use of Sodium Sulfate or Magnesium Sulfate⁴
- C 131 Test Method for Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine⁵
- C 136 Test Method for Sieve Analysis of Fine and Coarse Aggregates⁶
- C 535 Test Method for Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine⁷
- D 75 Practice for Sampling Aggregates⁸
- D 448 Classification for Sizes of Aggregate for Road and Bridge Construction⁹
- D 1665 Practice for Random Sampling of Construction Materials¹⁰
- D 4318 Test Method for Liquid Limit, Plastic Limit, and Plasticity Index of Soils¹¹
- D 4791 Test Method for Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate¹²

3. Ordering Information

3.1 Orders for material under this specification shall include the following information:

- 3.1.1 Name of material (Crushed Aggregate for Macadam Construction).
- 3.1.2 ASTM designation (D 693 and year of issue).
- 3.1.3 Grading (Silo Number) to be furnished (see 5.7 and Note 2).
- 3.1.4 Whether to be used in base course or surface course (see 5.1).
- 3.1.5 Whether for dry- or waterbound construction, or bituminous construction (see 5.4).
- 3.1.6 Quantity required, and
- 3.1.7 Special requirements.

4. General Characteristics

4.1 *Crushed Stone or Crushed Gravel*—The crushed stone or crushed gravel shall consist of reasonably clean, tough, durable fragments.

4.2 *Crushed Slag*—The crushed slag shall be air-cooled blast-furnace slag and shall consist of fragments reasonably clean, tough, durable, and consistent in density and quality.

4.3 *Choking Material for Dry- or Water-bound Macadam Base Courses*—The choking material shall consist of natural sand or the fine product resulting from crushing coarse aggregate.

5. Physical Requirements

5.1 *Degradation*—The aggregates (with the exception of Crushed Slag) shall conform to the following requirements:

	Base courses ¹³	Surface courses ¹⁴
Loss, Los Angeles Machine, max., %	50	40

5.2 *Bulk Density of Slag*—Air-cooled blast-furnace slag coarse aggregate, when tested in size No. 57 or No. 8, shall have a rodded bulk density not less than 1120 kg/m³ (70 lb/ft³).

5.3 *Crushed Pieces in Gravel*—Crushed gravel shall consist of particles with not less than 75 weight % of the portion retained on a 4.75-mm- (No. 4-) sieve having at least two fractured faces.

¹ This method is under the jurisdiction of ASTM Committee D-4 on Road and Paving Materials and is the direct responsibility of Subcommittee D04.20 on Aggregate Specifications.

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* Annual Book of ASTM Standards, Vol. 04.02.

* Annual Book of ASTM Standards, Vol. 04.02.

* Annual Book of ASTM Standards, Vol. 04.08.

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Standards for Specifying Construction of Airports United States. Federal Aviation Administration,1989 , **Annual Book of ASTM Standards** American Society for Testing and Materials,1981 Index to ASTM standards issued as last part of each vol Flexible Pavement Design for Airfields United States. Navy Department,1978 **Shape, Surface Texture, and Coatings of Aggregates** Bryant Mather,1965 **Annual Book of ASTM Standards** ASTM International,American Society for Testing and Materials,2003 **Methods for the Design, Construction, and Maintenance of Skid Resistant Airport Pavement Surfaces** United States. Federal Aviation Administration,1975 Maintenance and Repair Practices for Pavements ,1971 **Miscellaneous Publication - National Bureau of Standards** United States. National Bureau of Standards,1934 **National Directory of Commodity Specifications** United States. National Bureau of Standards,1945 *Skid Resistant Runway Surfaces* United States. Naval Facilities Engineering Command,1981 **Porous Friction Surface Course** Thomas D. White,1975 **Proceedings of the International Conference on Innovations for Sustainable and Responsible Mining** Xuan-Nam Bui,Changwoo Lee,Carsten Drebenstedt,2020-10-25 This volume gathers the latest advances innovations and applications in the field of mining geology and geo spatial technologies as presented by leading researchers and engineers at the International Conference on Innovations for Sustainable and Responsible Mining ISRM held in Hanoi Vietnam on October 15 17 2020 The contributions cover a diverse range of topics including mining technology drilling and blasting engineering tunneling and geotechnical applications mineral processing mine management and economy environmental risk assessment and management mining and local development mined land rehabilitation water management and hydrogeology regional Geology and tectonics spatial engineering for monitoring natural resources and environment change GIS and remote sensing for natural disaster monitoring risk mapping and revisualization natural resources monitoring and management mine occupational safety and health Selected by means of a rigorous peer review process they will spur novel research directions and foster future multidisciplinary collaborations National Bureau of Standards Miscellaneous Publication ,1945 **Technical Manual** United States. War Department,1963 **Linners for Land Disposal Sites** United States. Environmental Protection Agency,Allen Geswein,1975 *Index to A.S.T.M. Standards* American Society for Testing and Materials,1953 Indexes the society s Book of A S T M standards Book of A S T M tentative standards Book of A S T M methods of chemical analysis of metals and the standards published in the Proceedings of the annual meeting A.S.T.M. Tentative Standards American Society for Testing Materials,1927 *Eighteenth Annual Risk Reduction Engineering Laboratory Research Symposium* ,1992 Book of A.S.T.M. Tentative Standards American Society for Testing Materials,1924

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