



Designation: D 1257 – 90 (Reapproved 2001)

Standard Specification for High-Gravity Glycerin¹

This standard is issued under the fixed designation D 1257; 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 high-gravity glycerin (98.7 weight %, minimum) for use in the manufacture of alkyd and other synthetic resins.

1.2 For specific hazard information and guidance, see the supplier's Material Safety Data Sheet for materials listed in this specification.

2. Referenced Documents

2.1 ASTM Standards:

D 1258 Test Method for High-Gravity Glycerin²

2.2 U.S. Federal Standard:

PPP-C-2020 Chemicals, Liquid, Dry, and Paste: Packaging of³

3. Properties

3.1 The glycerin shall conform to the following requirements:

Apparent specific gravity, min:

| | |
|---|--------|
| 15.6/15.6°C (60/60°F) | 1.2620 |
| 25/25°C | 1.2587 |
| Color, Pt-Co scale, max | 20 |
| Sulfate ash, max, weight % | 0.1 |
| Acid value, max, mg KOH per g of material | 0.3 |

4. Test Methods and Sampling

4.1 The material shall be sampled and the properties enumerated in this specification determined in accordance with Test Method D 1258.

5. Packaging and Package Marking

5.1 Package size to be agreed upon between the purchaser and supplier.

5.2 Packaging shall conform to applicable carrier rules and regulations or when specified shall conform to Fed. Spec. PPP-C-2020.

6. Keywords

6.1 high-gravity glycerins

¹ This specification is under the jurisdiction of ASTM Committee D01 on Paint and Related Coatings, Materials, and Applications and is the direct responsibility of Subcommittee D01.35 on Solvents, Plasticizers, and Chemical Intermediates.

Current edition approved May 25, 1990. Published July 1990. Originally published as D 1257 – 79. Last previous edition D 1257 – 84.

² Annual Book of ASTM Standards, Vol 06.04.

³ Available from Standardization Documents Order Desk, Bldg. 4 Section D, 700 Robbins Ave., Philadelphia, PA 19111-5094, Attn: NPODS.

ASTM International takes no position respecting the validity of any patent rights asserted in connection with any item mentioned in this standard. Users of this standard are expressly advised that determination of the validity of any such patent rights, and the risk of infringement of such rights, are entirely their own responsibility.

This standard is subject to revision at any time by the responsible technical committee and must be reviewed every five years and if not revised, either reapproved or withdrawn. Your comments are invited either for revision of this standard or for additional standards and should be addressed to ASTM International Headquarters. Your comments will receive careful consideration at a meeting of the responsible technical committee, which you may attend. If you feel that your comments have not received a fair hearing you should make your views known to the ASTM Committee on Standards, at the address shown below.

This standard is copyrighted by ASTM International, 100 Barr Harbor Drive, PO Box C700, West Conshohocken, PA 19428-2959, United States. Individual reprints (single or multiple copies) of this standard may be obtained by contacting ASTM at the above address or at 610-832-9585 (phone), 610-832-9555 (fax), or service@astm.org (e-mail); or through the ASTM website (www.astm.org).