



Designation: D928 – 03 (Reapproved 2017)

Standard Specification for Sodium Bicarbonate¹

This standard is issued under the fixed designation D928; 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 material suitable for use in various washing, cleaning, and scouring processes, with or without soap as conditions demand, and where a mildly alkaline material is desired. (**Warning**—This material may be hazardous if not properly managed. Precautionary information for the safe use, storage, and disposal of this material should be preliminarily obtained from suppliers and others. In case of personal accident with this material, apply appropriate first aid; telephone nearest Poison Control Center for assistance, and get medical attention immediately.)

2. Referenced Documents

2.1 ASTM Standards:²

¹ This specification is under the jurisdiction of ASTM Committee D12 on Soaps and Other Detergents and is the direct responsibility of Subcommittee D12.12 on Analysis and Specifications of Soaps, Synthetics, Detergents and their Components.

Current edition approved Jan. 1, 2017. Published February 2017. Originally approved in 1947 as D928 – 47 T. Discontinued August 2001 and reinstated as D928–03. Last previous edition approved in 2009 as D928 – 03(2009). DOI: 10.1520/D0928-03R17.

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.

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by the responsible technical committee and must be reviewed every five years and if not revised, either reapproved or withdrawn.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). Permission rights to photocopy the standard may also be secured from the Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923, Tel: (978) 646-2600; <http://www.copyright.com/>

D501 Test Methods of Sampling and Chemical Analysis of Alkaline Detergents

3. Ordering Information

3.1 Sodium bicarbonate shall be purchased by net weight.

4. Chemical Composition

4.1 Sodium bicarbonate (NaHCO_3) as received shall conform to the following requirements as to chemical composition:

Na_2CO_3 , max, %	0.4
NaHCO_3 , min, %	99.6
Matter insoluble in water, max, %	0.1

5. Other Requirements

5.1 Sodium bicarbonate shall be a white, uniform powder. Any caking shall be capable of being readily disintegrated.

6. Methods of Sampling and Analysis

6.1 The material shall be sampled and analyzed in accordance with Test Methods D501.