



CGA G-2—2021
ANHYDROUS AMMONIA
NINTH EDITION

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Work Item 00-08
Specialty Gases Committee

NOTE—Technical changes from the previous edition are underlined.

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1 Scope and purpose

1.1 Scope

The information in this publication is intended for use by ammonia shippers, carriers, distributors, consumers, equipment designers or installers, safety administrators, and others desiring introductory knowledge of the subject. Anyone requiring more detailed or specialized information should consult with an ammonia supplier.

1.2 Purpose

The purpose of this publication is to provide information regarding properties, production, shipping, storage, handling, and use of ammonia. It also describes regulatory requirements in the United States and in Canada as well as safety and security practices. This information is intended to complement, but not to supplant national, state, provincial, municipal, and insurance company codes or safety requirements.

2 Definitions

For the purpose of this publication, the following definitions apply.

2.1 Publication terminology

2.1.1 **Shall**

Indicates that the procedure is mandatory. It is used wherever the criterion for conformance to specific recommendations allows no deviation.

2.1.2 **Should**

Indicates that a procedure is recommended.

2.1.3 **May**

Indicates that the procedure is optional.

2.1.4 **Will**

Is used only to indicate the future, not a degree of requirement.

2.1.5 **Can**

Indicates a possibility or ability.

2.2 Technical definitions

2.2.1 **Air purifying respirator**

Air-purifying device with full face piece approved by the National Institute for Occupational Safety and Health (NIOSH) under the provisions of Title 30 of the U.S. *Code of Federal Regulations* (30 CFR) Part II, Subpart I for use in an ammonia contaminated atmosphere in compliance with Title 29 of the U.S. *Code of Federal Regulations* (29 CFR) 1910.134 and selected in accordance with ANSI Z88.2, *Respiratory Protection* [1, 2, 3].¹

NOTE—A respirator of the air-purifying type shall be used only in an atmosphere containing 19.5% to 22.0% oxygen by volume.

2.2.2 **Approved**

- listed by a recognized testing laboratory; or
- recommended by the manufacturer as suitable for use with anhydrous ammonia and so marked; or
- accepted by the authority having jurisdiction (AHJ). See 2.2.5.

¹ References are shown by bracketed numbers and are listed in order of appearance in the reference section.