CGA

Compressed Gas Association

The Standard For Safety Since 1913

CGA G-1.5—2015

CARBIDE LIME: ITS VALUE AND USES

FIFTH EDITION

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Acetylene Committee

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1 Introduction

This publication is one of a series of publications written by the Compressed Gas Association, Inc. to satisfy the demand for information relative to the production, handling, storage, transportation, and uses of compressed and liquefied gases, cryogenic liquids, and related products.

2 Scope and purpose

2.1 Scope

This publication presents information on the production, chemical composition, properties, safe handling, distribution, and application of carbide lime, which should be useful to producers, users, and distributors of this product.

2.2 Purpose

The purpose of this publication is to present information on carbide lime, which is produced during the generation of acetylene gas. Information on acetylene can be found in CGA G-1, *Acetylene* [1].[1]

3 Definitions

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

3.1 Publication terminology

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

3.1.2 Should
Indicates that a procedure is recommended.

3.1.3 May
Indicate that the procedure is optional.

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

3.1.5 Can
Indicates a possibility or ability.

3.2 Technical definitions

3.2.1 Calcium carbide
Nonflammable chemical compound of calcium and carbon that reacts with water to produce acetylene gas and carbide lime.

3.2.2 Carbide lime
Calcium hydroxide (calcium hydrate) derived from the reaction of calcium carbide and water.

3.2.3 Decanting
Process of removing water from slurry to increase solids content.

3.2.4 Quicklime
Calcium oxide produced by calcinating limestone.

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