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Standard Guide for Selection and Use of Flat Strapping Materials[1]

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

INTRODUCTION

This guide covers two common categories of strapping materials: flat carbon steel and nonmetallic strapping. Within each of these two broad categories, there are distinct types that lend themselves to particular applications to differing degrees.

The goal of this guide is to help the user focus on the desired elements of performance or service, and the unique properties of each strapping material in order to judge which of these strapping materials is best suited for the application. Contact your supplier for further information.

It is recognized that there are other materials (not covered) that may also offer acceptable solutions or may be used in conjunction with flat strapping. Also, examples of ancillary materials are shown in Fig. 1.

Strapping may be recyclable. Contact your supplier for further information.

1. Scope

1.1 This guide covers information on flat strapping materials (steel or nonmetallic) for the prospective user wanting initial guidance in selecting a strapping material and applied configuration for use in packaging (closing, reinforcing, baling, unitizing, or palletizing) and loading (load unitization and securement to transport vehicle) applications. The use applies to handling, securement, storage, and distribution systems.

1.2 Carrier associations have established certain packaging and loading requirements that in some cases specify a type of strap, the minimum size or strength, or both, and type of joint or seal, or both, that must be used for certain types of shipments or under certain conditions. Users should consult with their carriers initially to determine if there are applicable, published requirements. Individual carriers may establish their own requirements (see 2.2).

1.3 *Limitations*— This guide is not intended to give specific information as to how strapping must be used in any particular packaging or loading situation. Rather it is intended to be informational in nature and is offered as a starting point for testing. The need for thorough user testing is to be emphasized as is a review of pertinent regulations that can influence the selection of sizes, types, and possibly, application methods.

1.4 The sections in this guide appear in the following order:

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1.5 The values stated in inch-pound units are to be regarded as the standard. The SI units given in parentheses are for information only.

[1] This guide is under the jurisdiction of ASTM Committee D10 on Packaging and is the direct responsibility of Subcommittee D10.25 on Palletizing and Unitizing of Loads.

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