AWS A5.01M/A5.01:2013
(ISO 14344:2010 MOD)
An American National Standard

Welding Consumables—Procurement of Filler Metals and Fluxes

American Welding Society®

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An American National Standard

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Welding Consumables—Procurement of Filler Materials and Fluxes

5th Edition

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Prepared by the
American Welding Society (AWS) A5 Committee on Filler Metals and Allied Materials

Under the Direction of the
AWS Technical Activities Committee

Approved by the
AWS Board of Directors

Abstract

This document provides a means by which the information needed for the procurement of welding consumables to a filler metal specification can be stated clearly, concisely, and completely. It includes a method by which the heat, lot, testing, and certification requirements that are essential to so many of today's welding applications can be specified in the procurement document. This specification makes use of both U.S. Customary Units and the International System of Units (SI). Since these are not equivalent, each system must be used independently of the other.

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Foreword

This foreword is not part of AWS A5.01M/A5.01:2013 (ISO 14344:2010 MOD), *Welding Consumables—Procurement of Filler Materials and Fluxes*, but is included for informational purposes only.

This AWS A5.01M/A5.01:2013 (ISO 14344:2010 MOD) standard is a modified adoption of International Standard ISO 14344:2010, *Welding Consumables — Procurement of Filler Materials and Fluxes*. This standard contains certain modifications due to national requirements and the particular needs of the existing AWS filler metal specifications. These technical deviations and additional information have been added directly to the clauses to which they refer. A list of modifications is given in Annex D.

In this edition, the various forms of fully metallic consumables have been combined into one definition. For clarity and simplicity, the "Identification" section has been removed and items incorporated into the "Terms and Definitions" and "Lot Classification" sections as necessary. The term "Production Schedule" has been defined. The 24 hour restriction was removed from the C3 lot classification for consistency with other lot classifications, and the phrase "for each lot shipped" was changed to "for each lot supplied" in several places. Substantive changes are shown in Italic font.

This document allows the use of both U.S. Customary Units and the International System of Units (SI). The choice of units shall be based on the referenced classification standard.

This document provides a method for specifying in the purchase order the information necessary for the procurement of welding filler metals to an AWS, ISO, or other applicable welding consumable specification. The current document is the fourth revision of the initial AWS document issued in 1978.

The initial version of this document, published in 1978, was the result of work by a task group appointed by the AWS Committee on Filler Metals. The 1993 revision was prepared by a permanent subcommittee (AWS Subcommittee on Filler Metal Procurement Guidelines) which has continued to review specifications in accordance with guidelines of the American National Standards Institute. The evolution took place as follows:

AWS A5.01-78	*Filler Metal Procurement Guidelines*
ANSI/AWS A5.01-87	*Filler Metal Procurement Guidelines*
ANSI/AWS A5.01-93	*Filler Metal Procurement Guidelines*
AWS A5.01M/A5.01:2008 (ISO 14344:2002 MOD)	*Procurement Guidelines for Consumables—Welding and Allied Processes—Flux and Gas Shielded Electrical Welding Processes*

Use of the method described in this document can aid in procuring the required welding materials. With it, the applicable details are completely described in the purchase order using standard terms, thereby avoiding delays caused by incomplete or incorrect filler metal descriptions and testing requirements.

Attention is drawn to the possibility that some of the elements of this standard may be the subject of patent rights. AWS and ISO shall not be held responsible for identifying any or all such patent rights.

Comments and suggestions for the improvement of this specification are welcome. They should be sent to the Secretary, AWS A5 Committee on Filler Metals and Allied Materials, American Welding Society, 8669 NW 36 St, # 130, Miami, FL 33166.

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