

Specification for Magnesium Alloy Welding Electrodes and Rods



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Specification for Magnesium Alloy Welding Electrodes and Rods

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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 specification prescribes requirements for the classification of bare magnesium alloy welding electrodes and rods for use with the gas metal arc, gas tungsten arc, oxyfuel gas, and plasma arc welding processes. Classification is based upon chemical composition of the welding wire. Standard sizes, finish, winding requirements, package forms and weights, product information, and chemical composition limits are specified.



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Foreword

This foreword is not part of AWS A5.19-92 (R2015), *Specification for Magnesium Alloy Welding Electrodes and Rods*, but is included for informational purposes only.

This document represents the fifth revision or reaffirmation of the specification initially issued in 1966 as a joint ASTM/AWS specification. Very soon after its publication, the ASTM agreed to accept the AWS as the sole society responsible for the development and publication of filler metals specifications.

In recent years, the AWS filler metal specifications have been recognized by the American National Standards Institute. The evolution of this specification is shown below:

ASTM B448-66T AWS A5.19-66T	<i>Tentative Specification for Magnesium-Alloy Welding Rods and Bare Electrodes</i>
AWS A5.19-69 ANSI W3.19-1973	<i>Specification for Magnesium-Alloy Welding Rods and Bare Electrodes</i>
ANSI/AWS A5.19-80	<i>Specification for Magnesium-Alloy Welding Rods and Bare Electrodes</i>
ANSI/AWS A5.19-90	<i>Specification for Magnesium-Alloy Welding Rods and Bare Electrodes</i>
ANSI/AWS A5.19-92	<i>Specification for Magnesium-Alloy Welding Rods and Bare Electrodes</i>
ANSI/AWS A5.19-92 (R2006)	<i>Specification for Magnesium-Alloy Welding Rods and Bare Electrodes</i>

Your comments for improving the *Specification for Magnesium Alloy Welding Electrodes and Rods* are welcome. Submit comments to the Managing Director, Technical Services Division, American Welding Society, 8669 NW 36th St, #130, Miami, FL 33166; telephone (305) 443-9353; fax (305) 443-5951; e-mail info@aws.org; or via the AWS web site <http://www.aws.org>.

Official interpretations of any of the technical requirements of this standard may be obtained by sending a request, in writing, to the Managing Director, Technical Services Division, American Welding Society. A formal reply will be issued after it has been reviewed by the appropriate personnel following established procedures.

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