

**AWS A5.29/A5.29M:2021**  
**An American National Standard**

# **Specification for Low-Alloy Steel Electrodes for Flux Cored Arc Welding**



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**An American National Standard**

**Approved by the**  
**American National Standards Institute**  
**September 11, 2020**

# **Specification for** **Low-Alloy Steel Electrodes** **for Flux Cored Arc Welding**

**5th Edition**

**Revises AWS A5.29/A5.29M:2010**

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 the requirements for classification of low-alloy steel electrodes for flux cored arc welding. The requirements include chemical composition and mechanical properties of the weld metal and certain usability characteristics. Optional supplemental designators are also included for improved toughness and diffusible hydrogen. Additional requirements are included for standard sizes, marking, manufacturing, and packaging. A guide is appended to the specification as a source of information concerning the classification system employed and the intended use of low-alloy steel flux cored electrodes.

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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