



AWS D1.1 Interpretation

Subject: Oxygen Equivalent Designator
Code Edition: D1.1:2020
Code Provision: Subclause 5.6.3(5)
AWS Log: D1.1-20-I03

Inquiry: Does an electrode classified to AWS A5.18, AWS A5.20, AWS A5.28 or AWS A5.29 with an Oxygen Equivalent shielding gas range designator meet the requirements of 5.6.3(5) that require demonstration that the electrode is capable of meeting the mechanical, chemical property and NDT requirements for the electrode classification with any shielding gas within the designated shielding gas range?

Response: Yes.

AWS standards are prepared by AWS technical committees. Because many AWS standards are written in the form of codes or specification, they cannot present background material or discuss the committee's intent.

The nature of inquiries directed to the American Welding Society and their technical committees have indicated that there are some requirements in AWS standards that are either difficult to understand or not sufficiently specific.

It should be recognized that the fundamental premise of AWS standards are to provide general stipulations applicable to any situation and to leave sufficient latitude for the exercise of engineering judgment. Another point to be recognized is that AWS standards represent the collective experience of AWS technical committees; and, while some provisions may seem overly conservative, they have been based on sound engineering practice.