

AWS C2.21M/C2.21: 2015
An American National Standard



Specification for Thermal Spray Equipment Performance Verification



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Specification for Thermal Spray Equipment Performance Verification

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Prepared by the
American Welding Society (AWS) C2 Committee on Thermal Spraying

Under the Direction of the
AWS Technical Activities Committee

Approved by the
AWS Board of Directors

Abstract

This standard specifies the essential elements of a procedure for verifying the performance of thermal spray equipment to ensure it is capable of operating according to the manufacturer's specifications or those established by the User.



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Foreword

This foreword is not a part of AWS C2.21M/C2.21:2015, *Specification for Thermal Spray Equipment Performance Verification*, but is included for information purposes only.

Predictable, consistent, and reliable thermal spray equipment performance is essential for proper application of the thermal spray process. Verifying the thermal spray equipment is operating according to the manufacturer's specifications, and established standards is an important part of a thermal spray quality assurance program.

The first version of this standard, titled *Specification for Thermal Spray Equipment Acceptance Inspection*, was published in 2003 as a response to ISO 14231:2000, *Thermal Spraying—Acceptance Inspection of Thermal Spraying Equipment*. The purpose of the standard was to provide a systematic approach to assure a purchaser the equipment has the capability to operate as the manufacturer intended. While verification of function at the time of purchase was a good first step, the industry also has a need to assure ongoing functional capability.

The change in title of this second edition reflects an expanded scope, which now includes a definition of the ongoing requirements for verification of equipment performance. Prescriptive design and performance requirements have been eliminated. Calibration considerations, processes, and procedures have been incorporated.

Comments and suggestions for the improvement of this standard are welcome. They should be sent to the Secretary, AWS C2 Committee on Thermal Spraying, American Welding Society, 8669 NW 36 St, # 130, Miami, FL 33166.

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