

INCH-POUND

MIL-DTL-32333A (MR)

04 JULY 2019

SUPERSEDING

MIL-DTL-32333 (MR)

29 July 2009

DETAIL SPECIFICATION

ARMOR PLATE, MAGNESIUM ALLOY, AZ31B, WE43C, APPLIQUE

This specification is approved for use by the Department of the Army and is available for use by all Departments and Agencies of the Department of Defense

1. SCOPE

1.1 Scope. This specification covers wrought magnesium alloy armor plate in nominal thicknesses from 0.250 to 3.000 inch, inclusive (see 6.2). The fusion weldability of these wrought magnesium alloy armors has not been fully tested or analyzed over this entire nominal thickness range. Therefore, these alloys should only be used as appliqué armor until a weldability study has been completed with acceptable results.

1.1.1 Classification. The wrought magnesium alloy armor should be of the following class as specified (see 6.2).

1.2.1 Class 1. Wrought magnesium that conforms to ASTM B951 designation for AZ31B alloy armor that has been cold rolled and partially annealed (H24 condition).

1.2.2 Class 2. Wrought magnesium that conforms to AMS4371B designation for WE43C alloy armor that has been cold rolled.

Comments, suggestions, or questions on this document should be addressed to: Director, U.S. Army CCDC Research Laboratory, Weapons and Materials Research Directorate, Specifications & Standards Office, Attn: FCDD-RLW-MC, Aberdeen Proving Ground, MD 21005-5069. Since contact information can change, you may want to verify the currency of this address information using the ASSIST Online database at <https://assist.dla.mil/>.

AMSC N/A

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