

**Specifications:**

AWS A5.19  
 AWS Class R-EZ33A  
 MIL-R-6944  
 UNS M12330  
 AMS 4396

**Properties:**

**Melting Point:** 1013°F-1184°F

**Description:**

**Aerospace Material Specification 4396 is magnesium alloy EZ33A; generally preferred for welding wrought base metals of similar composition. Typically used to weld wrought and cast base metals designed for elevated temperatures; however, welding this alloy with aluminum/magnesium alloys should be avoided due to cracking. Applications for this welding alloy include aerospace, electronics, automotives, nuclear facilities.**

**Available in multiple sizes and diameters in spool and wire rods.**

**Chemical Composition (Wt%)**

Ce	Zr, total	Zr, soluble	Zn	Mg	Other total
2.5-4.0	0.45-1.0	0.45 min	2.0-3.1	BAL	0.3

Note: Single values are maximum unless otherwise noted.

**Maintaining a proper welding procedure, including pre-heat and interpass temperatures, may be critical depending on the type and thickness of material being welded.**

**CAUTION:** Consumers should be thoroughly familiar with the safety precautions on the warning label posted in each shipment and in the American National Standards A49.1, "Safety in Welding and Cutting," published by the American Welding Society, 8669 NW 36 Street, #130, Miami, FL 33126; OSHA Safety and Health Standards 29 CFR 1910 is available from the U.S. Department of Labor, Washington, D.C. 20210.