

## **A356 (4008) Data Sheet**

ER4010; AMS 4181 (Premium)  
 UNS A 94008  
 AMS 4188/4  
 AMS 4218  
 ER4008 (Premium)  
 ER4010

Aerospace Material Specification 4181 includes aluminum alloy in two forms of welding wire. Typically used as a filler metal for gas-tungsten-arc and gas-metal-arc welding of aluminum of similar composition, heat treatment, and corrosion resistance; although, usage is not limited to such applications.

AMS 4181 is divided into Alloy 4008 and Alloy 4010. Alloy 4008 is used in large quantities for sand and permanent mold castings. Contains more stringent chemistry than Alloy 4010. Alloy 4008 is typically used for high strength applications in the automotive industry. Alloy 4010 is similar to Alloy 4008 but holds a lower Iron content, allowing for higher tensile properties.

Available in custom diameter straight length and spooled wire.

### **CHEMICAL COMPOSITION (Wt %):**

Mg	Ti	Fe	Al	Cu	Zn	Mn	Be	Other impurity	Other element
0.3-0.45	0.04-0.15	0.09 max	Bal	0.05 max	0.05 max	0.05 max	0.0008	0.05 max each	0.15 max each

**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. SDS’ may be obtained at the website below.