

## Alloy 357 Data Sheet

AWS A5.10 R357  
R 357.0  
AMS 4246  
UNS A03570  
USWC 4246(C)

Aerospace Material Specification 4246 is aluminum alloy 357. It's main composition is Aluminum-Silicon-Magnesium that is often used on casting alloys of similar compositions. This alloy does not contain Be. It is mainly used in compressor cases, missile components, airframe castings and fittings.

Available in multiple diameters and sizes in straight length wire and in spools.

### CHEMICAL COMPOSITION (Wt %):

Si	Fe	Mn	Cu	Zn	Mg	Al	Ti	Other impurity	Other element
6.5-7.5	0.15	0.03	0.05	0.05	0.45-0.60	Bal	0.20	0.05	0.15

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. SDS' may be obtained at the website below.