



AL 1100 Data Sheet

AWS A5.10
ER 1100
R1100
AMS 4180
AMS 4102
UNS A91100

Aerospace Material Specification 4180 is aluminum alloy AL 1100. Its main use is for welding base metals made of similar compositions. This alloy has a high resistance to weathering and chemical attacks. It is considered a soft alloy. AL 1100 has great welding characteristics and is used as a filler alloy. One of this alloy's most desirable characteristic is its bright finishes that are obtained through anodizing.

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

CHEMICAL COMPOSITION (Wt %):

Si + Fe	Mn	Cu	Zn	Al	Other impurity	Other element
0.95	0.05	0.05-0.20	0.10	99 min	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.