



## Alloy 5183 Data Sheet

AWS A5.10  
ER 5183  
R5183

Alloy 5183 was originally made to provide the highest strengths in the welded alloy 5083 and other alloys of similar composition. It is a non-heat transferable alloy, with principle elements of Mg, Mn, and Cr. This alloy is typically used in marine and structural applications where exposure to corrosive elements are important. Not recommended for applications of elevated temperature due to it being susceptible to stress corrosion cracking.

Melting Range: 1075 - 1180°F  
Density: .096 lbs/cu.in  
Anodize color: White  
Resistance to Corrosion: A

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

### CHEMICAL COMPOSITION (Wt %):

Si	Fe	Mn	Cu	Mg	Zn	Al	Ti	Be	Cr	Other each	Other total
0.40	0.40	0.50-1.0	0.10	4.3-5.2	0.25	REM	0.15	0.0003	0.05-0.25	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.