

**Table 7**  
**Aluminum Welding Filler Metal Selection Guide**

Base Metal	Filler Metal	Characteristics <sup>a</sup>							
		WSDCT <sup>b</sup>	WSDCT	WSDCT	WSDCT	WSDCT	WSDCT	WSDCT	WSDCT
356.0	4043	A B A A A	A B B A -	A B B A -	A B B A -	A B B A A	A A A A A	6061	6063
A356.0	5356	B A B B -	A A A A -	A A A A -	A A A B -	A A A B -	-----	6151	356.0
6061	4043	A D C A A	A D C A -	A D C A -	A D C A -	A D C B A	A C B A A		
6063	5183	B A B C -	A A B A -	A A B A -	B A B C -	B A B C -	B A A C -		
6151	5356	B B A C -	A B A A -	A B A A -	B B A C -	B B A C -	B B A C -		
6351	5554	C C A B A	B C A A -	B C A A -	C C A B -	C C A A A	C B A B B		
	5556	B A B C -	A A B A -	A A B A -	B A B C -	B A B C -	B A A C -		
	5654	C C A B -	B C A A -	B C A A -	C C A B -	C C A B -	C B A B -		
5454	4043	A D C C A	-----	-----	-----	-----	-----		
	5183	A A A B -	A A B B -	A A B B -	A A B B -	A A B B -	A A B B -		
	5356	A B A B -	A B A B -	A B A B -	A B A B -	A B A B -	A B A B -		
	5554	C C A A A	B C A A -	B C A A -	B C A A -	B C A A A	B C A A A		
	5556	A A B B -	A A B B -	A A B B -	A A B B -	A A B B -	A A B B -		
	5654	B C A B -	-----	-----	B C A A -	B C A B -			
514.0	4043	A D C C -	-----	-----	-----	-----	-----		
520.0	5183	A A B B -	A A B A -	A A B A -	A A B B -	-----	-----		
535.0	5356	A B A B -	A B A A -	A B A A -	A B A B -	-----	-----		
	5554	C C A A -	B C A A -	B C A A -	B C A A -	-----	-----		
	5556	A A B B -	A A B A -	A A B A -	A A B B -	-----	-----		
	5654	B C A A -	B C A A -	B C A A -	B C A A -	-----	-----		
5086	5183	A A B A -	A A B A -	A A B A -	-----	-----	-----		
	5356	A B A A -	A B A A -	A B A A -	-----	-----	-----		
	5554	C C A A -	-----	-----	-----	-----	-----		
	5556	A A B A -	A A B A -	A A B A -	-----	-----	-----		
	5654	B C A A -	-----	-----	-----	-----	-----		
5083	5183	A A B A -	A A B A -	-----	-----	-----	-----		
5456	5356	A B A A -	A A A A -	-----	-----	-----	-----		
	5554	C C A A -	-----	-----	-----	-----	-----		
	5556	A A B A -	A A B A -	-----	-----	-----	-----		
	5654	B C A A -	-----	-----	-----	-----	-----		
5052	4043	A D C B A	-----	-----	-----	-----	-----		
	5183	A A B C -	-----	-----	-----	-----	-----		
	5356	A B A C -	-----	-----	-----	-----	-----		
	5554	C C A A A	-----	-----	-----	-----	-----		
	5556	A A B C -	-----	-----	-----	-----	-----		
	5654	B C A B -	-----	-----	-----	-----	-----		

a. A, B, C, and D are relative ratings in decreasing order of merit. The ratings have relative meaning only within a given block. Combinations having no rating are not usually recommended. Ratings do not apply when the alloys are to be heat-treated after welding.

b. Legend: Filler metals are rated on the following characteristics:

Symbol	Characteristic
W	Ease of welding (relative freedom from weld cracking).
S	Strength of welded joint in as-welded condition. Rating applies particularly to fillet welds. All rods and electrodes rated should develop presently specified minimum strengths for butt welds.
D	Ductility. Rating is based upon free bend elongation of the weld.
C	Corrosion resistance in continuous or alternate immersion in fresh or salt water.
T	Recommended for service at sustained temperatures above 150°F (66°C).