

4043 ALUMINUM Welding wire

American Welding Society Sustaining Company Member



ALLOY DESCRIPTION AND APPLICATION;

4043 is a 5% silicon aluminum filler recommended for						
welding of 3003, 3004, 5052, 6061, 6063, and cast alloy such as 443, 355, 356 and 214.						
TYPICAL GMAW WELDING PROCEDURES; DCEP						
	Amps	Volts	Travel speed	(ipm) A	rgon (cfh)	
	60-175	15-24	25-45		25-30	
	70-185	15-27	25-40		30-35	
	125-260	20-29	24-35		35-45	
	170-300	24-30	28-38		45-55	
	275-400	26-31	14-20		60-75	
TYPICAL GTAW WELDING PROCEDURES; ACHF with Pure or Ziconiated Hemisphere shape						
tungsten tip						
Tungsten	Amps	Volts	Gas Cup Size	Argon (cfh)	Base thicknes	S
1/16"	60-80	15	3/8"	20	1/16"	
3/32"	125-160	15	3/8"	20	1/8"	
1/8"	190-220	15	7/16"	20	3/16"	
5/32"	200-300	15	1/2"	25	1/4"	
3/16"	330-380	15-20	5/8"	25	3/8"	
1/4"	400-450	25	5/8"	25	1/2"	
	3003, 3004 W WELD Tungsten 1/16" 3/32" 1/8" 5/32" 3/16" 1/4"	3003, 3004, 5052, 606 W WELDING PRO Amps 60-175 70-185 125-260 170-300 275-400 W WELDING PROO Tungsten Amps 1/16" 60-80 3/32" 125-160 1/8" 190-220 5/32" 200-300 3/16" 330-380 1/4" 400-450	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	3003, 3004, 5052, 6061, 6063, and cast alloy sucAmpsVoltsAmpsVoltsTravel speed $60-175$ 15-24 $25-45$ $70-185$ 15-27 $125-260$ 20-29 $24-35$ $170-300$ 24-30 $28-38$ $275-400$ 26-31 $275-400$ 26-31 $14-20$ W WELDING PROCEDURES; ACHF with PTungsten Amps $1/16$ "60-80 15 $3/8$ " $3/32$ "125-160 15 $3/8$ " $1/8$ "190-220 15 $7/16$ " $5/32$ "200-300 15 $1/2$ " $3/16$ " $330-380$ $15-20$ $5/8$ "	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	3003, 3004, 5052, 6061, 6063, and cast alloy such as 443, 355, 356 and 214. A WELDING PROCEDURES; DCEP Amps Volts Travel speed (ipm) Argon (cfh) 60-175 15-24 25-45 25-30 70-185 15-27 25-40 30-35 125-260 20-29 24-35 35-45 170-300 24-30 28-38 45-55 275-400 26-31 14-20 60-75 W WELDING PROCEDURES; ACHF with Pure or Ziconiated Hemispher Tungsten Amps Volts Gas Cup Size Argon (cfh) Base thickness 1/16" 60-80 15 $3/8$ " 20 $1/16$ " 3/32" 125-160 15 $3/8$ " 20 $1/16$ " 3/32" 125-160 15 $3/8$ " 20 $1/8$ " 1/8" 190-220 15 $7/16$ " 20 $3/16$ " 5/32" 200-300 15 $1/2$ " 25 $1/4$ " 3/16" 330-380 15-20 $5/8$ " 25 $3/8$ "

Procedures are base on flat position and may vary with change in position, base metals, filler metals, equipment and other changes.

TYPICAL CHEMISTRY AND PROPERTIES;

Silicon	Iron	Copper	Manganese	Magnesium	Zinc	Titanium	Beryllium
4.5-6.0	0.80	0.30	0.05	0.05	0.10	0.20	0.0008
Aluminum Remainder and others each 0.50 & total 0.15				All values are maximum percentage unless noted			

Solidus:1065°F Liquidus:1170°F Density: 0.097 lbs./cu. In. Anodize color: Gray Average Tensile Strength All weld metal (as welded) 29,000 psi (200 mpa)

AVAILABLE SIZES: TA 4043 = Spools of .023, .030, .035, .040, 3/64, 1/16 TB 4043 = Cut lengths of .023, .030, .035, 3/64, 1/16, 5/64, 3/32, 1/8, 5/32, 3/16, 1/4 SPECIFICATIONS: ANSI/AWS A5.10 ER/ R 4043

'ECIFICATIONS;	ANSI/AWS A5.10	ER/ R 4043
	ASME SFA5.10	ER/R 4043
	AMS	4190



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