



## Aluminium Alloy 4043

### ● TYPICAL TENSILE PROPERTIES

Condition : As Welded Tensile Strength : 124 MPa (18 ksi)

Elongation: 18 % Yield Strength : 55 MPa (8 ksi)

### ● RECOMMENDED WELDING PARAMETERS

Current	Voltage	Wire Diameter
140-260 A	20-29 V	1.2 mm (0.047 in.)
180-210 A	22-26 V	1.2 mm (0.047 in.)
125-150 A	20-24 V	1.2 mm (0.047 in.)
170-240 A	24-28 V	1.2 mm (0.047 in.)
190-350 A	25-30 V	1.6 mm (1/16 in.)
240-300 A	22-27 V	1.6 mm (1/16 in.)
190-260 A	21-26 V	1.6 mm (1/16 in.)
290-340 A	26-30 V	1.6 mm (1/16 in.)
260-310 A	22-27 V	1.6 mm (1/16 in.)
280-320 A	24-28 V	1.6 mm (1/16 in.)
60-170 A	13-24 V	0.8 mm (0.030 in.)
100-130 A	18-22 V	0.8 mm (0.030 in.)
125-150 A	20-24 V	0.8 mm (0.030 in.)
90-210 A	15-26 V	1.0 mm (0.040 in.)
280-400 A	26-31 V	2.4 mm (3/32 in.)
280-360 A	26-30 V	2.4 mm (3/32 in.)
60-170 A	13-24 V	0.9 mm (0.035 in.)
125-150 A	20-24 V	0.9 mm (0.035 in.)
85-120 A	20-23 V	0.9 mm (0.035 in.)
170-190 A	21-26 V	0.9 mm (0.035 in.)
280-400 A	26-31 V	2.0 mm (5/64 in.)
300-400 A	26-30 V	2.4 mm (3/32 in.)

### ● CLASSIFICATIONS

Wire Electrode

SFA/AWS A5.10 : ER4043

EN ISO 18273 : S Al 4043 (AlSi5)

JIS Z 3232 : A4043

### ● CONSUMABLE CHARACTERISTICS

Alloy Type : AlSi

### ● TYPICAL WELD METAL ANALYSIS %

Typical Wire Composition %

Al	Cu	Fe	Mn	Si	Ti	Zn
Rem	0.02	0.14	0.01	5.00	0.01	0.01