

ALUMINUM

MIG WIRES / TIG RODS (GMAW/GTAW)

ALTIGWELD 4043

Alloy 4043 is one of the oldest and most widely used welding and brazing alloys. ALTigweld 4043 can be classed as a general purpose type filler alloy. The silicon additions result in improved fluidity (wetting action) to make the alloy a preferred choice by welders. The alloy is less sensitive to weld cracking and produces brighter, almost smut free welds.

Specifications	
Classifications	AMS 4190 : (Chemistry Only) ANSI/AWS A5.10 : (ER & R)
Approvals	CE CWB DB : 61.002.05 LR

Approvals are based on factory location. Please contact ESAB for more information.

Alloy Type	Aluminum
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Tensile Properties			
Testing Condition	Yield Strength	Tensile Strength	Elongation
2014-T6			
Base Alloy	414 MPa (60 ksi)	483 MPa (70 ksi)	13 %
Base Alloy 6063-T4			
As Welded	69 MPa (10 ksi)	138 MPa (20 ksi)	12 %
6061-T4			
Base Alloy	145 MPa (21 ksi)	241 MPa (35 ksi)	22 %
Base Alloy 6061-T4			
As Welded	124 MPa (18 ksi)	186 MPa (27 ksi)	8 %
6061-T6			
Base Alloy	276 MPa (40 ksi)	310 MPa (45 ksi)	12 %
Base Alloy 6061-T6			
As Welded	124 MPa (18 ksi)	186 MPa (27 ksi)	8 %
PWHT	276 MPa (40 ksi)	303 MPa (44 ksi)	5 %
Base Alloy 2014-T6			
As Welded	193 MPa (28 ksi)	234 MPa (34 ksi)	4 %
6063-T4			
Base Alloy	152 MPa (22 ksi)	172 MPa (25 ksi)	22 %

Typical Wire Composition %					
Mn	Si	Cu	Ti	Zn	Fe
0.01	5.0	0.02	0.01	0.01	0.14