

ESAB ER5356

AWS A5.10: ER5356

FEATURES

ESAB 5356 is a non-heat treatable solid aluminum wire for moderate high strength applications. Principle alloy elements include Manganese, Manganese, Chromium and Titanium.

CLASSIFICATIONS AND APPROVALS

- AWS A5.10: ER5356

WELDING PROCESS

- GTAW (TIG)
- GMAW (MIG)

INDUSTRIES

- Mobile Machinery
- Shipbuilding
- Automotive
- General Fabrication

TYPICAL MECHANICAL PROPERTIES

As Welded Base Alloy 6061-T6	
Yield Strength	19 ksi, 210 MPa
Tensile Strength	30 ksi, 2105 MPa
Elongation in 2"	11%
Base Alloy 6063-T6	
Yield Strength	12 ksi, 85 MPa
Tensile Strength	20 ksi, 140 MPa
Elongation in 2"	12%
Base Alloy 7005-T6	
Yield Strength	30 ksi, 205 MPa
Tensile Strength	46 ksi, 315 MPa
Elongation in 2"	10%
Base Alloy 7039-T64	
Yield Strength	25 ksi, 170 MPa
Tensile Strength	44 ksi, 305 MPa
Elongation in 2"	13%
Other Typical Mechanical Properties	
Melting Range	1060°F to 1175°F
	571°C to 635°C
Density	.096 lbs/cu in.
Anodize Color	White

WELD METAL ANALYSIS

(Single Values Minimum)	
Mn	0.05-0.20%
Si	0.25%
Cr	0.05-0.20%
Ti	0.06-0.20%
Cu	0.10%
Mg	4.5-5.5%
Zn	0.10%
Be	0.0008%
Fe	0.40%

ESAB ER5356 continued

PART NUMBER / PRODUCT INFORMATION

Part Number	Description	UPC
181508215A	5356 030X1#PSP/18#CT	662303080372
181508245A	5356 030X14#PSP	662303080402
181509215A	5356 035X1#PSP/18#CT	662303080389
181509243A	5356 035X16#PSP	662303080419
181516R15A	5356 1/16X39X11#CT/33#CT	662303080518
181516242A	5356 1/16X20#PSP	662303080457
181512215A	5356 3/64X1#PSP/18#CT	662303080396
181512242A	5356 3/64X20#PSP	662303080440
181512944A	5356 3/64X311#OMP	662303080792
181524R15A	5356 3/32X39X11#CT/33#CT	662303080525
181532R15A	5356 1/8X39X11#CT/33#CT	662303080532
181540R15A	5356 5/32X39X11#CT/33#CT	662303080549