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# ALUMINUM WIRES

## Welding Product Catalogue

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# 1100

**AWS A5.10 – ER1100, R1100**

1100 is 99% aluminum filler typically used on similar base metal such as 1060, 1070, 1080, 1100, 1350 and 3003.

### Chemical Composition (weight %)

Aluminum	99.0 Min
Manganese	0.50 Max
Iron + Silicon	0.95 Max
Copper	0.05-0.20
Beryllium	0.0003 Max
Other Elements	0.05 Max & Total 0.15 Max

### Typical Properties

Melting Range	1090-1215°F (643-657°C)
Density	.098 lbs/cu in. Other
Post Anodize Color	White Gold

### Wire and Rod Diameters Available

Inch	0.030	0.035	3/64	1/16	3/32	1/8	5/32	3/16	1/4	5/16
mm	0.8	0.9	1.2	1.6	2.4	3.2	4.0	5.0	6.0	8.0

### Packaging Available

Plastic Spools	1LB/0.4KG, 5LB/2.2KG, 10LB/4.5KG, 16LB/7.2KG, 20LB/9KG
Metal Spools	10LB/4.5KG, 15LB/6.8KG
Drums	150LB/68KG, 300LB/136KG
TIG Rods	5LB/2.2KG, 10LB/4.5KG, 50LB/22.6KG

### MIG Welding Procedures: DCEP

Wire Diameter	WFS ipm	Amps	Volts	Consumption LB/100FT	Argon (cfh)
0.030"	480-625	60-175	15-24	0.65-1.25	25-30
0.035"	450-750	70-185	15-27	1.00-4.25	30-35
3/64"	330-500	125-260	20-29	1.00-4.25	35-45
1/16"	250-450	170-300	24-30	3.8-66	45-75
3/32"	160-200	275-400	26-31	35-66	60-85

### TIG Welding Procedures: ACHF- with Pure or Ziconiated Hemisphere shape tungsten tip

Base Thickness	Filler Wire Size	Tungsten	Amps	Consumption LB/100FT	Gas Cup Size	Argon (cfh)
1/16"	1/16"	1/16"	60-80	0.75	3/8"	20
3/32"	3/32"	3/32"	85-120	1.00	3/8"	20
1/8"	3/32"	3/32"	125-160	1.50	3/8"	20
3/16"	1/8"	1/8"	190-220	4.5-6.0	7/16"	25
1/4"	5/32"	5/32"	200-300	8-10	1/2"	30
3/8"	3/16"	3/16"	330-380	15-20	5/8"	35
1/2"	1/4"	1/4"	400-500	25-40	5/8"	40

## Ordering Information for MIG

<b>Product Number</b>	<b>AWS Specification</b>	<b>Dimension</b>	<b>Single Package Weight</b>
MW110003016	ER1100, R1100	0.030" (0.8mm)	16LB/7.2KG, 20LB/9KG
MW110003516	ER1100, R1100	0.035" (0.9mm)	16LB/7.2KG, 20LB/9KG
MW110004016	ER1100, R1100	0.040" (1.0mm)	16LB/7.2KG, 20LB/9KG
MW110036416	ER1100, R1100	3/64" (1.2mm)	20LB/9KG
MW110011616	ER1100, R1100	1/16" (1.6mm)	20LB/9KG
MW11000301	ER1100, R1100	0.030" (0.8mm)	5LB/2.2KG
MW11000351	ER1100, R1100	0.035" (0.9mm)	5LB/2.2KG
MW11000401	ER1100, R1100	0.040" (1.0mm)	5LB/2.2KG
MW110036451	ER1100, R1100	3/64" (1.2mm)	5LB/2.2KG

## Ordering Information for TIG

<b>Product Number</b>	<b>AWS Specification</b>	<b>Dimension</b>	<b>Single Package Weight</b>
MWT1100364	ER1100, R1100	3/64" (1.2mm)	10LB/4.5KG
MWT1100116	ER1100, R1100	1/16" (1.6mm)	10LB/4.5KG
MWT1100332	ER1100, R1100	3/32" (2.4mm)	10LB/4.5KG
MWT110018	ER1100, R1100	1/8" (3.2mm)	10LB/4.5KG
MWT1100532	ER1100, R1100	5/32" (4.0mm)	10LB/4.5KG
MWT1100316	ER1100, R1100	3/16" (5.0mm)	10LB/4.5KG



## 4043

**AWS A5.10 – ER4043, R4043**

4043 is 5% silicon all position aluminum weld wire used to weld heat treatable alloys such as the 6XXX base metals and cast alloys. Found in many common welding applications such as bicycles, trucks, trailers, automotive parts and equipment. Silicon with this alloys give improved wetting action yielding a less crack sensitive bright weld bead.

### Chemical Composition (weight %)

Aluminum	Remainder	Silicon	4.5-6.0
Manganese	0.05 Max	Magnesium	0.05 Max
Iron	0.80 Max	Titanium	0.20 Max
Copper	0.30 Max	Zinc	0.10 Max
Beryllium	0.0008 Max		
Other Elements	0.05 Max & Total 0.15 Max		

### Typical Properties

Melting Range	1065-1170°F (574-632°C)
Tensile Strength PSI	21-33,000
Yield Strength PSI	10-27,500
Density	.097 lbs/cu in.
Post Anodize Color	Gray

### Wire and Rod Diameters Available

Inch	0.030	0.035	3/64	1/16	3/32	1/8	5/32	3/16	1/4	5/16
mm	0.8	0.9	1.2	1.6	2.4	3.2	4.0	5.0	6.0	8.0

### Packaging Available

Plastic Spools	1LB/0.4KG, 5LB/2.2KG, 10LB/4.5KG, 16LB/7.2KG, 20LB/9KG
Metal Spools	10LB/4.5KG, 15LB/6.8KG
Drums	150LB/68KG, 300LB/136KG
TIG Rods	5LB/2.2KG, 10LB/4.5KG, 50LB/22.6KG

### MIG Welding Procedures: DCEP

Wire Diameter	WFS ipm	Amps	Volts	Consumption LB/100FT	Argon (cfh)
0.030"	480-625	60-175	15-24	0.65-1.25	25-30
0.035"	450-750	70-185	15-27	1.00-4.25	30-35
3/64"	330-500	125-260	20-29	1.00-4.25	35-45
1/16"	250-450	170-300	24-30	3.8-66	45-75
3/32"	160-200	275-400	25-31	35-66	60-85

### TIG Welding Procedures: ACHF- with Pure or Ziconiated Hemisphere shape tungsten tip

Base Thickness	Filler Wire Size	Tungsten	Amps	Consumption LB/100FT	Gas Cup Size	Argon (cfh)
1/16"	1/16"	1/16"	60-80	0.75	3/8"	20
3/32"	3/32"	3/32"	85-120	1.00	3/8"	20
1/8"	3/32"	3/32"	125-160	1.50	3/8"	20
3/16"	1/8"	1/8"	190-220	4.5-6.0	7/16"	25
1/4"	5/32"	5/32"	200-300	8-10	1/2"	30
3/8"	3/16"	3/16"	330-380	15-20	5/8"	35
1/2"	1/4"	1/4"	400-500	25-40	5/8"	40

### Ordering Information for MIG

<b>Product Number</b>	<b>AWS Specification</b>	<b>Dimension</b>	<b>Single Package Weight</b>
MW404303016	ER4043, R4043	0.030" (0.8mm)	16LB/7.2KG, 20LB/9KG
MW404303516	ER4043, R4043	0.035" (0.9mm)	16LB/7.2KG, 20LB/9KG
MW404004016	ER4043, R4043	0.040" (1.0mm)	16LB/7.2KG, 20LB/9KG
MW404336416	ER4043, R4043	3/64" (1.2mm)	20LB/9KG
MW404311616	ER4043, R4043	1/16" (1.6mm)	20LB/9KG
MW40430301	ER4043, R4043	0.030" (0.8mm)	5LB/2.2KG
MW40430351	ER4043, R4043	0.035" (0.9mm)	5LB/2.2KG
MW40430401	ER4043, R4043	0.040" (1.0mm)	5LB/2.2KG
MW40433641	ER4043, R4043	3/64" (1.2mm)	5LB/2.2KG

### Ordering Information for TIG

<b>Product Number</b>	<b>AWS Specification</b>	<b>Dimension</b>	<b>Single Package Weight</b>
MWT4043364	ER4043, R4043	3/64" (1.2mm)	10LB/4.5KG
MWT4043116	ER4043, R4043	1/16" (1.6mm)	10LB/4.5KG
MWT4043332	ER4043, R4043	3/32" (2.4mm)	10LB/4.5KG
MWT404318	ER4043, R4043	1/8" (3.2mm)	10LB/4.5KG
MWT4043532	ER4043, R4043	5/32" (4.0mm)	10LB/4.5KG
MWT4043316	ER4043, R4043	3/16" (5.0mm)	10LB/4.5KG



## 4043A/4943

AWS A5.10 – ER4043A/4943, R4043A/4943

4043A/4943 is an alternative alloy to 4043 with 25% higher Ultimate Tensile Strength (UTS) and 50% higher yield strength in the as welded condition. Similar to 4043 it possesses moderate to high strength (35 ksi typical), low melting temperature and high fluidity, low ductility, formability and lower toughness as well as moderate electrical and thermal conductivity. 4043A/4943 may be used to weld 1XXX, 3XXX, 5XXX with less than 3.0% Mg. Common applications include automotive frames, aerospace hardware, bicycles, concrete forms and furniture.

### Chemical Composition (weight %)

Aluminum	Remainder	Silicon	5.0-6.0
Manganese	0.05 Max	Magnesium	0.30-0.50
Iron	0.40 Max	Titanium	0.15 Max
Copper	0.10 Max	Zinc	0.10 Max
Beryllium	0.0003 Max		
Other Elements	0.05 Max & Total 0.15 Max		

### Typical Properties

Melting Range	1065-1175°F (574-635°C)
Density	.097 lbs/cu in.
Post Anodize Color	Gray

### Wire and Rod Diameters Available

Inch	0.030	0.035	3/64	1/16	3/32	1/8	5/32	3/16	1/4	5/16
mm	0.8	0.9	1.2	1.6	2.4	3.2	4.0	5.0	6.0	8.0

### Packaging Available

Plastic Spools	1LB/0.4KG, 5LB/2.2KG, 10LB/4.5KG, 16LB/7.2KG, 20LB/9KG
Metal Spools	10LB/4.5KG, 15LB/6.8KG
Drums	150LB/68KG, 300LB/136KG
TIG Rods	5LB/2.2KG, 10LB/4.5KG, 50LB/22.6KG

### MIG Welding Procedures: DCEP

Wire Diameter	WFS ipm	Amps	Volts	Consumption LB/100FT	Argon (cfh)
0.030"	480-625	60-175	15-24	0.65-1.25	25-30
0.035"	450-750	70-185	15-27	1.00-4.25	30-35
3/64"	330-500	125-260	20-29	1.00-4.25	35-45
1/16"	250-450	170-300	24-30	3.8-66	45-75
3/32"	160-200	275-400	25-31	35-66	60-85

### TIG Welding Procedures: ACHF- with Pure or Ziconiated Hemisphere shape tungsten tip

Base Thickness	Filler Wire Size	Tungsten	Amps	Consumption LB/100FT	Gas Cup Size	Argon (cfh)
1/16"	1/16"	1/16"	60-80	0.75	3/8"	20
3/32"	3/32"	3/32"	85-120	1.00	3/8"	20
1/8"	3/32"	3/32"	125-160	1.50	3/8"	20
3/16"	1/8"	1/8"	190-220	4.5-6.0	7/16"	25
1/4"	5/32"	5/32"	200-300	8-10	1/2"	30
3/8"	3/16"	3/16"	330-380	15-20	5/8"	35
1/2"	1/4"	1/4"	400-500	25-40	5/8"	40

# 4043A/4943

AWS A5.10 – ER4043A/4943, R4043A/4943

## Ordering Information for MIG

<b>Product Number</b>	<b>AWS Specification</b>	<b>Dimension</b>	<b>Single Package Weight</b>
MW494303016	ER4943, R4943	0.030" (0.8mm)	16LB/7.2KG, 20LB/9KG
MW494303516	ER4943, R4943	0.035" (0.9mm)	16LB/7.2KG, 20LB/9KG
MW494304016	ER4943, R4943	0.040" (1.0mm)	16LB/7.2KG, 20LB/9KG
MW494336416	ER4943, R4943	3/64" (1.2mm)	20LB/9KG
MW494311616	ER4943, R4943	1/16" (1.6mm)	20LB/9KG
MW49430301	ER4943, R4943	0.030" (0.8mm)	5LB/2.2KG
MW49430351	ER4943, R4943	0.035" (0.9mm)	5LB/2.2KG
MW49430401	ER4943, R4943	0.040" (1.0mm)	5LB/2.2KG
MW49433641	ER4943, R4943	3/64" (1.2mm)	5LB/2.2KG

## Ordering Information for TIG

<b>Product Number</b>	<b>AWS Specification</b>	<b>Dimension</b>	<b>Single Package Weight</b>
MWT4943364	ER4943, R4943	3/64" (1.2mm)	10LB/4.5KG
MWT4943116	ER4943, R4943	1/16" (1.6mm)	10LB/4.5KG
MWT4943332	ER4943, R4943	3/32" (2.4mm)	10LB/4.5KG
MWT494318	ER4943, R4943	1/8" (3.2mm)	10LB/4.5KG
MWT4943532	ER4943, R4943	5/32" (4.0mm)	10LB/4.5KG
MWT4943316	ER4943, R4943	3/16" (5.0mm)	10LB/4.5KG





## 4047

**AWS A5.10 – ER4047, R4047**  
**AWS A5.8 – BAISI-4**



4047 is 12% silicon all position aluminum weld wire used to weld heat treatable alloys such as the 6XXX base metals and cast alloys. Found in many common welding applications such as bicycles, trucks, trailers, automotive parts and equipment. The higher silicon with this alloy give improved wetting action yielding a less crack sensitive bright weld bead and also a narrow melting range which will reduce the shrinkage during cooling.

### Chemical Composition (weight %)

Aluminum	Remainder	Silicon	11.0-13.0
Manganese	0.15 Max	Magnesium	0.10 Max
Iron	0.80 Max	Zinc	0.20 Max
Copper	0.30 Max		
Beryllium	0.0008 Max		
Other Elements	0.05 Max & Total 0.15 Max		

### Typical Properties

Melting Range	1065-1075°F (574-580°C)
Tensile Strength	21-33,000 PSI / 144-227 MPa
Yield Strength	10-27,500 PSI / 69-190 MPa
Elongation in 2"	5-12%
Density	.096 lbs/cu in.
Post Anodize Color	Gray

### Wire and Rod Diameters Available

Inch	0.030	0.035	3/64	1/16	3/32	1/8	5/32	3/16	1/4	5/16
mm	0.8	0.9	1.2	1.6	2.4	3.2	4.0	5.0	6.0	8.0

### Packaging Available

Plastic Spools	1LB/0.4KG, 5LB/2.2KG, 10LB/4.5KG, 16LB/7.2KG, 20LB/9KG
Metal Spools	10LB/4.5KG, 15LB/6.8KG
Drums	150LB/68KG, 300LB/136KG
TIG Rods	5LB/2.2KG, 10LB/4.5KG, 50LB/22.6KG

### MIG Welding Procedures: DCEP

Wire Diameter	WFS ipm	Amps	Volts	Consumption LB/100FT	Argon (cfh)
0.030"	480-625	60-175	15-24	0.65-1.25	25-30
0.035"	450-750	70-185	15-27	1.00-4.25	30-35
3/64"	330-500	125-260	20-29	1.00-4.25	35-45
1/16"	250-450	170-300	24-30	3.8-66	45-75
3/32"	160-200	275-400	25-31	35-66	60-85

### TIG Welding Procedures: ACHF- with Pure or Ziconiated Hemisphere shape tungsten tip

Base Thickness	Filler Wire Size	Tungsten	Amps	Consumption LB/100FT	Gas Cup Size	Argon (cfh)
1/16"	1/16"	1/16"	60-80	0.75	3/8"	20
3/32"	3/32"	3/32"	85-120	1.00	3/8"	20
1/8"	3/32"	3/32"	125-160	1.50	3/8"	20
3/16"	1/8"	1/8"	190-220	4.5-6.0	7/16"	25
1/4"	5/32"	5/32"	200-300	8-10	1/2"	30
3/8"	3/16"	3/16"	330-380	15-20	5/8"	35
1/2"	1/4"	1/4"	400-500	25-40	5/8"	40

### Ordering Information for MIG

<b>Product Number</b>	<b>AWS Specification</b>	<b>Dimension</b>	<b>Single Package Weight</b>
MW404703016	ER4047, R4047	0.030" (0.8mm)	16LB/7.2KG, 20LB/9KG
MW404703516	ER4047, R4047	0.035" (0.9mm)	16LB/7.2KG, 20LB/9KG
MW404704016	ER4047, R4047	0.040" (1.0mm)	16LB/7.2KG, 20LB/9KG
MW404736416	ER4047, R4047	3/64" (1.2mm)	20LB/9KG
MW404711616	ER4047, R4047	1/16" (1.6mm)	20LB/9KG
MW40470301	ER4047, R4047	0.030" (0.8mm)	5LB/2.2KG
MW40470351	ER4047, R4047	0.035" (0.9mm)	5LB/2.2KG
MW40470401	ER4047, R4047	0.040" (1.0mm)	5LB/2.2KG
MW40473641	ER4047, R4047	3/64" (1.2mm)	5LB/2.2KG

### Ordering Information for TIG

<b>Product Number</b>	<b>AWS Specification</b>	<b>Dimension</b>	<b>Single Package Weight</b>
MWT4047364	ER4047, R4047	3/64" (1.2mm)	10LB/4.5KG
MWT4047116	ER4047, R4047	1/16" (1.6mm)	10LB/4.5KG
MWT4047332	ER4047, R4047	3/32" (2.4mm)	10LB/4.5KG
MWT404718	ER4047, R4047	1/8" (3.2mm)	10LB/4.5KG
MWT4047532	ER4047, R4047	5/32" (4.0mm)	10LB/4.5KG
MWT4047316	ER4047, R4047	3/16" (5.0mm)	10LB/4.5KG



## 5183

AWS A5.10 – ER5183, R5183

5183 is similar to 5356 with 5% magnesium aluminum filler typically used on similar base metal as the 5356 but may give higher strengths on such base metals like 5083 and other magnesium containing base metals.

### Chemical Composition (weight %)

Aluminum	Remainder	Silicon	0.40 Max
Manganese	0.50-1.00	Magnesium	4.3-5.2
Iron	0.40 Max	Chromium	0.5-0.25
Copper	0.10 Max	Titanium	0.15 Max
Beryllium	0.0003 Max	Zinc	0.25 Max
Other Elements	0.05 Max & Total 0.15 Max		

### Typical Properties

Melting Range	1075-1080°F (579-582°C)
Density	.096 lbs/cu in.
Post Anodize Color	White

### Wire and Rod Diameters Available

Inch	0.030	0.035	3/64	1/16	3/32	1/8	5/32	3/16	1/4	5/16
mm	0.8	0.9	1.2	1.6	2.4	3.2	4.0	5.0	6.0	8.0

### Packaging Available

Plastic Spools	1LB/0.4KG, 5LB/2.2KG, 10LB/4.5KG, 16LB/7.2KG, 20LB/9KG
Metal Spools	10LB/4.5KG, 15LB/6.8KG
Drums	150LB/68KG, 300LB/136KG
TIG Rods	5LB/2.2KG, 10LB/4.5KG, 50LB/22.6KG

### MIG Welding Procedures: DCEP

Wire Diameter	WFS ipm	Amps	Volts	Consumption LB/100FT	Argon (cfh)
0.030"	480-625	60-175	15-24	0.65-1.25	25-30
0.035"	450-750	70-185	15-27	1.00-4.25	30-35
3/64"	330-500	125-260	20-29	1.00-4.25	35-45
1/16"	250-450	170-300	24-30	3.8-66	45-75
3/32"	160-200	275-400	25-31	35-66	60-85

### TIG Welding Procedures: ACHF- with Pure or Ziconiated Hemisphere shape tungsten tip

Base Thickness	Filler Wire Size	Tungsten	Amps	Consumption LB/100FT	Gas Cup Size	Argon (cfh)
1/16"	1/16"	1/16"	60-80	0.75	3/8"	20
3/32"	3/32"	3/32"	85-120	1.00	3/8"	20
1/8"	3/32"	3/32"	125-160	1.50	3/8"	20
3/16"	1/8"	1/8"	190-220	4.5-6.0	7/16"	25
1/4"	5/32"	5/32"	200-300	8-10	1/2"	30
3/8"	3/16"	3/16"	330-380	15-20	5/8"	35
1/2"	1/4"	1/4"	400-500	25-40	5/8"	40

**Ordering Information for MIG**

<b>Product Number</b>	<b>AWS Specification</b>	<b>Dimension</b>	<b>Single Package Weight</b>
MW518303016	ER5183, R5183	0.030" (0.8mm)	16LB/7.2KG, 20LB/9KG
MW518303516	ER5183, R5183	0.035" (0.9mm)	16LB/7.2KG, 20LB/9KG
MW518304016	ER5183, R5183	0.040" (1.0mm)	16LB/7.2KG, 20LB/9KG
MW518336416	ER5183, R5183	3/64" (1.2mm)	20LB/9KG
MW518311616	ER5183, R5183	1/16" (1.6mm)	20LB/9KG
MW51830301	ER5183, R5183	0.030" (0.8mm)	5LB/2.2KG
MW51830351	ER5183, R5183	0.035" (0.9mm)	5LB/2.2KG
MW51830401	ER5183, R5183	0.040" (1.0mm)	5LB/2.2KG
MW51833641	ER5183, R5183	3/64" (1.2mm)	5LB/2.2KG

**Ordering Information for TIG**

<b>Product Number</b>	<b>AWS Specification</b>	<b>Dimension</b>	<b>Single Package Weight</b>
MWT5183364	ER5183, R5183	3/64" (1.2mm)	10LB/4.5KG
MWT5183116	ER5183, R5183	1/16" (1.6mm)	10LB/4.5KG
MWT5183332	ER5183, R5183	3/32" (2.4mm)	10LB/4.5KG
MWT518318	ER5183, R5183	1/8" (3.2mm)	10LB/4.5KG
MWT5183532	ER5183, R5183	5/32" (4.0mm)	10LB/4.5KG
MWT5183316	ER5183, R5183	3/16" (5.0mm)	10LB/4.5KG



## 5356

AWS A5.10 – ER5356, R5356

5356 is a 5% magnesium all position non-heat treatable wire used to weld the 5XXX series alloys with some common welding applications such as boats, ships, bicycles, trucks, pressure vessels, automotive parts and equipment.

### Chemical Composition (weight %)

Aluminum	Remainder	Silicon	0.25 Max
Manganese	0.05-0.20	Magnesium	4.5-5.5
Iron	0.40 Max	Chromium	0.05-0.20
Copper	0.10 Max	Titanium	0.06-0.20
Beryllium	0.0003 Max	Zinc	0.10 Max
Other Elements	0.05 Max & Total 0.15 Max		

### Typical Properties

Melting Range	1060-1175°F (571-635°C)
Density	.096 lbs/cu in.
Post Anodize Color	White

### Wire and Rod Diameters Available

Inch	0.030	0.035	3/64	1/16	3/32	1/8	5/32	3/16	1/4	5/16
mm	0.8	0.9	1.2	1.6	2.4	3.2	4.0	5.0	6.0	8.0

### Packaging Available

Plastic Spools	1LB/0.4KG, 5LB/2.2KG, 10LB/4.5KG, 16LB/7.2KG, 20LB/9KG
Metal Spools	10LB/4.5KG, 15LB/6.8KG
Drums	150LB/68KG, 300LB/136KG
TIG Rods	5LB/2.2KG, 10LB/4.5KG, 50LB/22.6KG

### MIG Welding Procedures: DCEP

Wire Diameter	WFS ipm	Amps	Volts	Consumption LB/100FT	Argon (cfh)
0.030"	480-625	60-175	15-24	0.65-1.25	25-30
0.035"	450-750	70-185	15-27	1.00-4.25	30-35
3/64"	330-500	125-260	20-29	1.00-4.25	35-45
1/16"	250-450	170-300	24-30	3.8-66	45-75
3/32"	160-200	275-400	26-31	35-66	60-85

### TIG Welding Procedures: ACHF- with Pure or Ziconiated Hemisphere shape tungsten tip

Base Thickness	Filler Wire Size	Tungsten	Amps	Consumption LB/100FT	Gas Cup Size	Argon (cfh)
1/16"	1/16"	1/16"	60-80	0.75	3/8"	20
3/32"	3/32"	3/32"	85-120	1.00	3/8"	20
1/8"	3/32"	3/32"	125-160	1.50	3/8"	20
3/16"	1/8"	1/8"	190-220	4.5-6.0	7/16"	25
1/4"	5/32"	5/32"	200-300	8-10	1/2"	30
3/8"	3/16"	3/16"	330-380	15-20	5/8"	35
1/2"	1/4"	1/4"	400-500	25-40	5/8"	40

## Ordering Information for MIG

<b>Product Number</b>	<b>AWS Specification</b>	<b>Dimension</b>	<b>Single Package Weight</b>
MW535603016	ER5356, R5356	0.030" (0.8mm)	16LB/7.2KG, 20LB/9KG
MW535603516	ER5356, R5356	0.035" (0.9mm)	16LB/7.2KG, 20LB/9KG
MW535604016	ER5356, R5356	0.040" (1.0mm)	16LB/7.2KG, 20LB/9KG
MW535636416	ER5356, R5356	3/64" (1.2mm)	20LB/9KG
MW535611616	ER5356, R5356	1/16" (1.6mm)	20LB/9KG
MW53560301	ER5356, R5356	0.030" (0.8mm)	5LB/2.2KG
MW53560351	ER5356, R5356	0.035" (0.9mm)	5LB/2.2KG
MW53560401	ER5356, R5356	0.040" (1.0mm)	5LB/2.2KG
MW53563641	ER5356, R5356	3/64" (1.2mm)	5LB/2.2KG

## Ordering Information for TIG

<b>Product Number</b>	<b>AWS Specification</b>	<b>Dimension</b>	<b>Single Package Weight</b>
MWT5356364	ER5356, R5356	3/64" (1.2mm)	10LB/4.5KG
MWT5356116	ER5356, R5356	1/16" (1.6mm)	10LB/4.5KG
MWT5356332	ER5356, R5356	3/32" (2.4mm)	10LB/4.5KG
MWT535618	ER5356, R5356	1/8" (3.2mm)	10LB/4.5KG
MWT5356532	ER5356, R5356	5/32" (4.0mm)	10LB/4.5KG
MWT5356316	ER5356, R5356	3/16" (5.0mm)	10LB/4.5KG



## 5554

AWS A5.10 – ER5554, R5554

5554 is an aluminum filler typically used on 5454 and similar base metal that may be used in chemical tanks and other storage where 150F may be found.

### Chemical Composition (weight %)

Aluminum	Remainder	Silicon	0.25 Max
Manganese	0.50-1.00	Magnesium	2.4-3.0
Iron	0.40 Max	Chromium	0.05-0.20
Copper	0.10 Max	Titanium	0.05-0.20
Beryllium	0.0003 Max	Zinc	0.25 Max
Other Elements	0.05 Max & Total 0.15 Max		

### Typical Properties

Melting Range	1155-1195°F (640-646°C)
Density	.097 lbs/cu in.
Post Anodize Color	White

### Wire and Rod Diameters Available

Inch	0.030	0.035	3/64	1/16	3/32	1/8	5/32	3/16	1/4	5/16
mm	0.8	0.9	1.2	1.6	2.4	3.2	4.0	5.0	6.0	8.0

### Packaging Available

Plastic Spools	1LB/0.4KG, 5LB/2.2KG, 10LB/4.5KG, 16LB/7.2KG, 20LB/9KG
Metal Spools	10LB/4.5KG, 15LB/6.8KG
Drums	150LB/68KG, 300LB/136KG
TIG Rods	5LB/2.2KG, 10LB/4.5KG, 50LB/22.6KG

### MIG Welding Procedures: DCEP

Wire Diameter	WFS ipm	Amps	Volts	Consumption LB/100FT	Argon (cfh)
0.030"	480-625	60-175	15-24	0.65-1.25	25-30
0.035"	450-750	70-185	15-27	1.00-4.25	30-35
3/64"	330-500	125-260	20-29	1.00-4.25	35-45
1/16"	250-450	170-300	24-30	3.8-66	45-75
3/32"	160-200	275-400	26-31	35-66	60-85

### TIG Welding Procedures: ACHF- with Pure or Ziconiated Hemisphere shape tungsten tip

Base Thickness	Filler Wire Size	Tungsten	Amps	Consumption LB/100FT	Gas Cup Size	Argon (cfh)
1/16"	1/16"	1/16"	60-80	0.75	3/8"	20
3/32"	3/32"	3/32"	85-120	1.00	3/8"	20
1/8"	3/32"	3/32"	125-160	1.50	3/8"	20
3/16"	1/8"	1/8"	190-220	4.5-6.0	7/16"	25
1/4"	5/32"	5/32"	200-300	8-10	1/2"	30
3/8"	3/16"	3/16"	330-380	15-20	5/8"	35
1/2"	1/4"	1/4"	400-500	25-40	5/8"	40

### Ordering Information for MIG

Product Number	AWS Specification	Dimension	Single Package Weight
MW555403016	ER5554, R5554	0.030" (0.8mm)	16LB/7.2KG, 20LB/9KG
MW555403516	ER5554, R5554	0.035" (0.9mm)	16LB/7.2KG, 20LB/9KG
MW555404016	ER5554, R5554	0.040" (1.0mm)	16LB/7.2KG, 20LB/9KG
MW555436416	ER5554, R5554	3/64" (1.2mm)	20LB/9KG
MW555411616	ER5554, R5554	1/16" (1.6mm)	20LB/9KG
MW55540301	ER5554, R5554	0.030" (0.8mm)	5LB/2.2KG
MW55540351	ER5554, R5554	0.035" (0.9mm)	5LB/2.2KG
MW55540401	ER5554, R5554	0.040" (1.0mm)	5LB/2.2KG
MW55543641	ER5554, R5554	3/64" (1.2mm)	5LB/2.2KG

### Ordering Information for TIG

Product Number	AWS Specification	Dimension	Single Package Weight
MWT5554364	ER5554, R5554	3/64" (1.2mm)	10LB/4.5KG
MWT5554116	ER5554, R5554	1/16" (1.6mm)	10LB/4.5KG
MWT5554332	ER5554, R5554	3/32" (2.4mm)	10LB/4.5KG
MWT555418	ER5554, R5554	1/8" (3.2mm)	10LB/4.5KG
MWT5554532	ER5554, R5554	5/32" (4.0mm)	10LB/4.5KG
MWT5554316	ER5554, R5554	3/16" (5.0mm)	10LB/4.5KG





## 5556

AWS A5.10 – ER5556, R5556



5556 is an aluminum filler with higher levels of magnesium and zinc than 5356 which will yield increased crack resistance, tensile strength and good ductility. Commonly used on 5154, 5254, 5454 and 6456.

### Chemical Composition (weight %)

Aluminum	Remainder	Silicon	0.25 Max
Manganese	0.50-1.00	Magnesium	4.70-5.50
Iron	0.40 Max	Chromium	0.05-0.20
Copper	0.10 Max	Titanium	0.05-0.20
Beryllium	0.0003 Max	Zinc	0.25 Max
Other Elements	0.05 Max & Total 0.15 Max		

### Typical Properties

Melting Range	1065-1175°F (574-636°C)
Density	.096 lbs/cu in.
Post Anodize Color	White

### Wire and Rod Diameters Available

Inch	0.030	0.035	3/64	1/16	3/32	1/8	5/32	3/16	1/4	5/16
mm	0.8	0.9	1.2	1.6	2.4	3.2	4.0	5.0	6.0	8.0

### Packaging Available

Plastic Spools	1LB/0.4KG, 5LB/2.2KG, 10LB/4.5KG, 16LB/7.2KG, 20LB/9KG
Metal Spools	10LB/4.5KG, 15LB/6.8KG
Drums	150LB/68KG, 300LB/136KG
TIG Rods	5LB/2.2KG, 10LB/4.5KG, 50LB/22.6KG

### MIG Welding Procedures: DCEP

Wire Diameter	WFS ipm	Amps	Volts	Consumption LB/100FT	Argon (cfh)
0.030"	480-625	60-175	15-24	0.65-1.25	25-30
0.035"	450-750	70-185	15-27	1.00-4.25	30-35
3/64"	330-500	125-260	20-29	1.00-4.25	35-45
1/16"	250-450	170-300	24-30	3.8-66	45-75
3/32"	160-200	275-400	26-31	35-66	60-85

### TIG Welding Procedures: ACHF- with Pure or Ziconiated Hemisphere shape tungsten tip

Base Thickness	Filler Wire Size	Tungsten	Amps	Consumption LB/100FT	Gas Cup Size	Argon (cfh)
1/16"	1/16"	1/16"	60-80	0.75	3/8"	20
3/32"	3/32"	3/32"	85-120	1.00	3/8"	20
1/8"	3/32"	3/32"	125-160	1.50	3/8"	20
3/16"	1/8"	1/8"	190-220	4.5-6.0	7/16"	25
1/4"	5/32"	5/32"	200-300	8-10	1/2"	30
3/8"	3/16"	3/16"	330-380	15-20	5/8"	35
1/2"	1/4"	1/4"	400-500	25-40	5/8"	40

## Ordering Information for MIG

<b>Product Number</b>	<b>AWS Specification</b>	<b>Dimension</b>	<b>Single Package Weight</b>
MW555603016	ER5556, R5556	0.030" (0.8mm)	16LB/7.2KG, 20LB/9KG
MW555603516	ER5556, R5556	0.035" (0.9mm)	16LB/7.2KG, 20LB/9KG
MW555604016	ER5556, R5556	0.040" (1.0mm)	16LB/7.2KG, 20LB/9KG
MW555636416	ER5556, R5556	3/64" (1.2mm)	20LB/9KG
MW555611616	ER5556, R5556	1/16" (1.6mm)	20LB/9KG
MW55560301	ER5556, R5556	0.030" (0.8mm)	5LB/2.2KG
MW55560351	ER5556, R5556	0.035" (0.9mm)	5LB/2.2KG
MW55560401	ER5556, R5556	0.040" (1.0mm)	5LB/2.2KG
MW55563641	ER5556, R5556	3/64" (1.2mm)	5LB/2.2KG

## Ordering Information for TIG

<b>Product Number</b>	<b>AWS Specification</b>	<b>Dimension</b>	<b>Single Package Weight</b>
MWT5556364	ER5556, R5556	3/64" (1.2mm)	10LB/4.5KG
MWT5556116	ER5556, R5556	1/16" (1.6mm)	10LB/4.5KG
MWT5556332	ER5556, R5556	3/32" (2.4mm)	10LB/4.5KG
MWT555618	ER5556, R5556	1/8" (3.2mm)	10LB/4.5KG
MWT5556532	ER5556, R5556	5/32" (4.0mm)	10LB/4.5KG
MWT5556316	ER5556, R5556	3/16" (5.0mm)	10LB/4.5KG



# Metalizing Wire

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Metalizing wire is produced per AWS specifications. It is suitable for flame spray equipment, arc spray coating systems and vacuum processes.

## Standard Alloys & Sizes

All Metalizing wire is custom manufactured. Normal shipping time is 2-3 weeks.

## Packaging Available

Plastic Spools	16LB/ 7.25KG (1.5mm, 1.6mm, 1.8mm, 2.0mm, 2.4mm, 3.2mm) 26LB/ 11.79KG (1.5mm, 1.6mm, 1.8mm, 2.0mm, 2.4mm)
Wooden Reels	125LB/ 56.69KG (1.5mm, 1.6mm, 1.8mm, 2.0mm, 2.4mm, 3.2mm) 225LB/ 102KG (1.5mm, 1.6mm, 1.8mm, 2.0mm, 2.4mm, 3.2mm, 4.0mm, 4.8mm)

## Available in the following alloys:

1075, 1080, 1100, 1188, 1199, 1350, 4043, 5356





# Tie Wire

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Tie wire is used primarily to secure bundles of metal or other materials.

**Individual Coils:**

- 50LB – 16 Gauge/ 1.3 mm
- 50LB – 14 Gauge/ 1.6 mm
- 50LB – 11 Gauge/ 2.3 mm
- 50LB – 8 Gauge/ 3.2 mm
- 50LB – 5 Gauge/ 4.7 mm

**Available in the following alloys:**

1100, 1350, 5356





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