

TIMSCO

PRODUCTS AND SERVICES GUIDE

FILLER MATERIALS



To request a quote or to place an order, please call

214-544-6790

Gas
Equipment

Welding &
Cutting Equipment

Welding
Support

Filler Metals

MRO Supplies

Safety

Index

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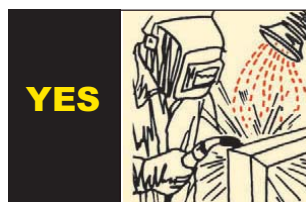


**Welders shall follow safe welding practices.
Employers shall provide safe working conditions and safety training.**

As in most trades, welders are exposed to certain hazards. Hazards exist with all arc welding processes. Welding is safe when safe practices are followed.

This information is a brief outline of precautionary measures that will help avoid the hazards of arc welding. Read and understand the manufacturer's instructions and your employer's safe practices. Your Safety Director or Supervisor should be consulted when specific questions arise.

Fumes and gases can be dangerous to your health



YES

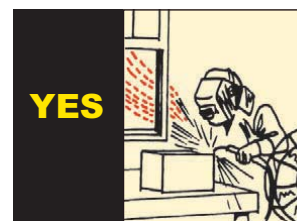


NO

- **Keep** your head out of the fumes.
- **Don't** get too close to the arc. Use corrective lenses if necessary to stay a reasonable distance away from the arc.
- **Read** and obey the warning labels that appear on all containers of welding materials.
- **Use enough ventilation** or exhaust at the arc, or both, to keep the fumes and gases from your breathing zone and the general area.

- **In a large room outdoors**, natural ventilation may be adequate if you keep your head out of the fumes.
- **Use natural drafts** or fans to keep the fumes away from your face.

If you develop unusual symptoms, see your supervisor. Perhaps the welding atmosphere and ventilation system should be checked.



YES



NO

Some ventilation suggestions

- **Be Sure** adequate ventilation is available when welding in confined areas or where there are barriers to air movement.
- **Source Extractor** (local exhaust) is a mechanical device used to capture welding fume at or near the arc and filter contaminants out of the air.

Wear correct eye, ear and body protection

Protect your eyes and face with a welding helmet properly fitted and with proper grade of filter plate (See ANSI Z49.1). **Protect** your body from welding spatter and arc flash with protective clothing including woolen clothing, flame-resistant apron and gloves, leather leggings, and high boots. **Protect** others from spatter, flash, and glare with protective screens or barriers.

In some areas, protection from noise may be appropriate.

Be sure protective equipment is in good condition. Also, wear safety glasses in work area **at all times**.

Special situations

- **Do not weld or cut** containers or materials which previously had been in contact with hazardous substances unless they are properly cleaned. This is extremely dangerous.
- **Do not weld or cut** painted or plated parts unless special precautions with ventilation have been taken. They can release highly toxic fumes or gases.



USE NATURAL VENTILATION



USE EXHAUST AT THE ARC



**PROTECT YOURSELF
& OTHERS**

DO NOT TOUCH LIVE ELECTRICAL PARTS

Electric shock can kill.

- Be sure you are insulated from live electrical parts.
- Be sure equipment is adequate for the job.
- Be sure equipment is installed according to prevailing codes.
- Be sure damaged parts are repaired or replaced.
- Be sure welding machine is properly grounded.
- Be sure gloves have no holes.
- Be sure to stay dry; do not weld when you are wet.
- Be sure equipment is turned OFF when not in use.
- Do not use cables that are too small, damaged, or poorly spliced.
- Do not wrap cables around your body.

Additional precautionary measures

Protect compressed gas cylinders from excessive heat, mechanical shocks, and arcs; fasten cylinders so they cannot fall.

Be sure cylinders are never grounded or part of an electrical circuit.

Remove all potential fire hazards from the welding area.

Always have fire fighting equipment ready for immediate use and know how to use it.



American Welding Society



Stick Electrodes (SMAW)

Gas
Equipment

Welding &
Cutting Equipment

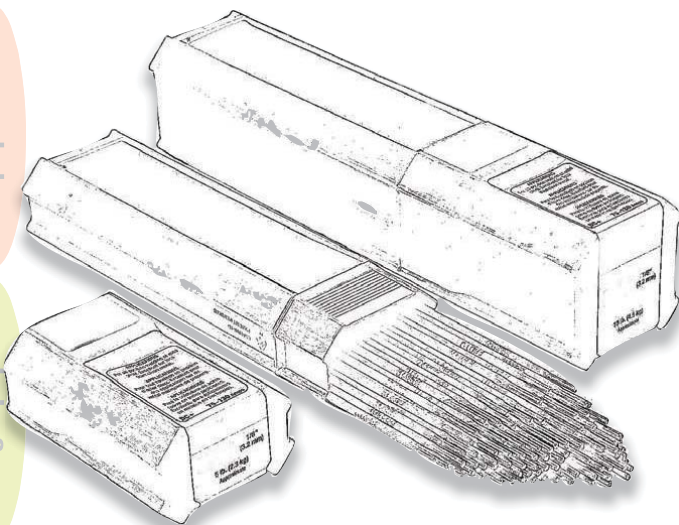
Welding
Support

Filler Metals

MRO Supplies

Safety

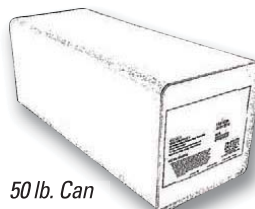
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7018 — AWS E7018 Carbon Steel Electrode

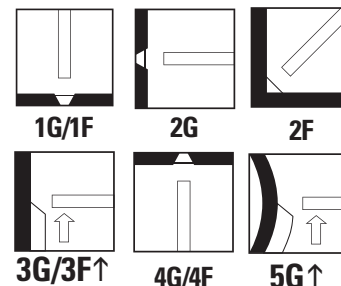
7018 is a good choice when the project involves hard-to-weld steels. Great for welding on thick sections and restrained joints when cracking is an issue. Most common stick electrode used.

AC
DC±



50 lb. Can

Welding Positions



Benefits

- Easy slag removal
- Capable of x-ray quality and excellent impact properties
- Premium arc performance

Typical Applications

- Designed for welding hardenable steels
- Cold rolled steels, or other steels
- Low alloy and mild steels when stress relieving normally would be required but cannot be done
- All-position welding
- General fabrication
- Power generation
- Petrochemical

- Pressure vessels
- Pressure piping

Approvals and Conformances

- AWS A5:E7018
- ASME SFA 5.1: E7018
- ABS
- CWB/CSH

AWS E7018 Ordering Information and Packaging

Radnor® 7018

Diameter (inches)	10 lb Box	50 lb Can
3/32	RAD64001108	RAD64001114
1/8	RAD64001110	RAD64001116
5/32	RAD64001112	RAD64001118

*Sold per package

RADNOR

LINCOLN
ELECTRIC

Excaliber® 7018 MR

Diameter (inches)	50 lb Can
3/32	LINED028280
1/8	LINED028281
5/32	LINED028282
3/16	LINED028283
7/32	LINED028917
1/4	LINED028918

Jetweld® LH-70

Diameter (inches)	50 lb Can
3/32	LINED010568
1/8	LINED010561
5/32	LINED010575
3/16	LINED010564
7/32	LINED010577
1/4	LINED010558

Jet-LH® 78 MR

Diameter (inches)	50 lb Can
3/32	LINED015161
1/8	LINED015198
5/32	LINED015141
3/16	LINED015186
1/4	LINED015383

Excaliber® 7018-1 MR

Diameter (inches)	10 lb Can 30 lb Master Carton (overpack)	50 lb Can
3/32 (14"L)	LINED032591	LINED028700
1/8	LINED032592	LINED028702
5/32	—	LINED028704
3/16	—	LINED028706
7/32	—	LINED028919
1/4	—	LINED028920

Hobart® 718MC

Diameter (inches)	50 lb Can
3/32	HOBS115932-035
1/8	HOBS115944-035
5/32	HOBS115951-035
3/16	HOBS115958-035
7/32	HOBS115970-035
1/4	HOBS115981-035

Hobart® 418

Diameter (inches)	10 lb Can	50 lb Can
3/32	HOBS119932-033	HOBS119932-035
1/8	HOBS119944-033	HOBS119944-035
5/32	HOBS119951-033	HOBS119951-035
3/16	—	HOBS119958-035
7/32	—	HOBS119970-035
1/4	—	HOBS119981-035

HOBART

AtomArc® 7018

Diameter (inches)	10 lb Can	50 lb Can
3/32	ESA255013328	ESA255013310
1/8	ESA255011827	ESA255011819
5/32	ESA255015323	ESA255015315
3/16	ESA255013120	ESA255013112
7/32	—	ESA255017311
1/4	—	ESA255011413

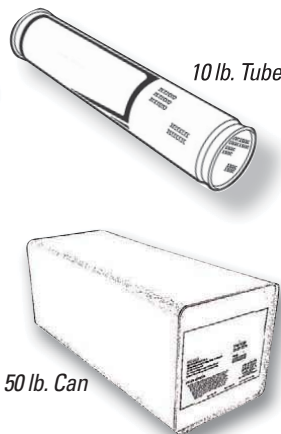
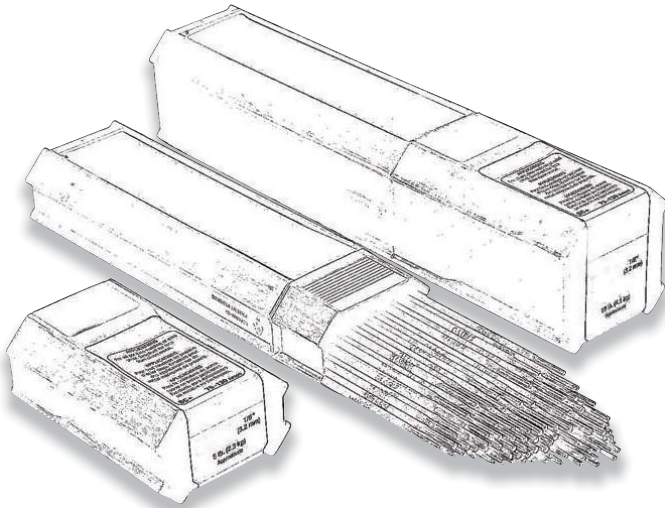
ESAB

Timco offers all filler metal brands, sizes and alloys. The most popular sizes, brands and packages are shown in this guide. Please contact your Timco representative if you can't find what you need.

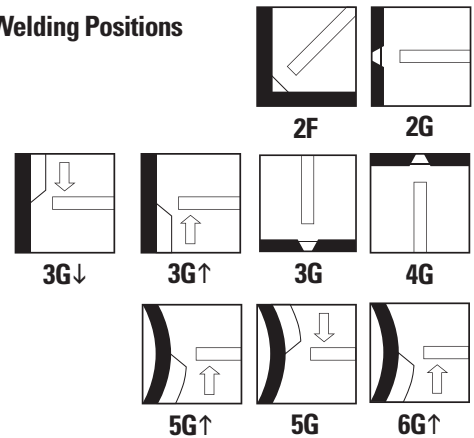
Stick Electrodes (SMAW)

6010 — AWS E6010 Carbon Steel Electrode

6010-AWS E6010 Carbon Steel Electrodes feature a digging arc (penetration) with light slag. An all-position coated mild steel electrode. Excellent for rusty or oily steel in maintenance and repair work. Deliver a minimum 60,000 PSI tensile strength.



Welding Positions



Benefits

- All-position, particularly good for vertical and overhead
- Light slag with little slag interference for easy arc control
- Deep penetration with maximum admixture
- Capable of x-ray quality welds, out-of-position

Typical Applications

- Tolerates coated, plated, dirty, painted or greasy steel which cannot be completely cleaned
- Construction and shipbuilding
- General purpose fabrication
- Maintenance welding
- Pipe welding
- Out-of-position x-ray welds
- Vertical and overhead plate welding
- Joints requiring deep penetration such as square edge butt welds
- Cross country and in-plant pipe welding

Approvals and Conformances

- AWS A5.1: E6010
- ASME SFA-5.1: E6010
- Lloyd's Grade 3m
- ABS E6010

AWS E6010 Ordering Information and Packaging

Diameter (inches)	10 lb Pkg	50 lb Can
1/8	RAD64001014	RAD64001020
5/32	—	RAD64001022

*Sold per package

RADNOR

Fleetweld® 5P

Diameter (inches)	50 lb Can
3/32	LINED010211
1/8	LINED010203
5/32	LINED010216
3/16	LINED010207
7/32	LINED010219
1/4	LINED010200

Fleetweld® 5P+

Diameter (inches)	10 lb Can 30 lb Master Carton (overpack)	50 lb Can
3/32	LINED032564	LINED010283
1/8	LINED032565	LINED010278
5/32	LINED032566	LINED010285
3/16	—	LINED010281

Pipeliner® 6P+

Diameter (inches)	10 lb Can 30 lb Master Carton (overpack)	50 lb Can
3/32	LINED032609	—
1/8	LINED032610	LINED030848
5/32	LINED032611	LINED030849

LINCOLN
ELECTRIC

Pipemaster® Pro-60

Diameter (inches)	50 lb Can
3/32	HOBS129132-035
1/8	HOBS129144-035
5/32	HOBS129151-035
3/16	HOBS129158-035

Pipemaster® 60

Diameter (inches)	50 lb Can
3/32	HOBS116532-035
1/8	HOBS116544-035
5/32	HOBS116551-035
3/16	HOBS116558-035

HOBART

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Gas
Equipment

Welding &
Cutting Equipment

Welding
Support

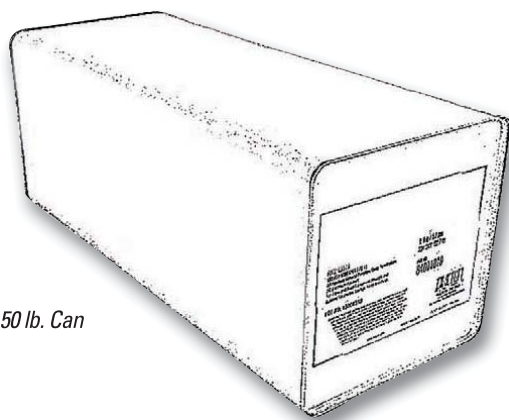
Filler Metals

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Stick Electrodes (SMAW)



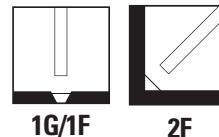
50 lb. Can

6022 — AWS E6022

E6022 is designed for welding roof decking to support beams and other similar applications where burn-through spot welds with full penetration are required. E6022 is also designed to weld through galvanized or painted roof decking and can be used on plated and dirty decking as well. It is also excellent for rapid downhill welding when joining light gauge materials.

AC
DC±

Welding Positions



1G/1F

2F

Benefits

- Smooth, easy to control arc
- Better control of spot nugget
- Excellent strike and re-strike
- Reliable starts and restarts, no rework
- Penetrating arc
- Strong, reliable welds
- Low spatter level
- Less clean-up, good bead appearance
- Light slag
- Faster clean-up

Typical Applications

- Burn-through spot welds for roof decking and sheet metal, rapid downhill welding on light gauge materials

Approvals and Conformances

- AWS A5.1 E6022
- ASME SFA 5.1 E6022

AWS E6022 Ordering Information and Packaging

Fleetweld® 22

Diameter (inches)	50 lb Carton
1/8	LINED021896
5/32	LINED021895

LINCOLN
ELECTRIC

Deckmaster™ 1139

Diameter (inches)	50 lb Can
1/8	HOBS113244-031
5/32	HOBS113251-031

HOBART

Recommended Welding Procedures

General	Electrode negative, work positive (DCEN), or electrode positive, work negative (DCEP) or AC
Arc Length	Short arc or drag technique
Flat	Using dragging technique, hold electrode angle 10-15° from 90°
Vertical-Up	Not recommended
Vertical-Down	Use dragging technique, hold electrode 10-15° from 90°
Overhead	Not recommended
Storage	60°F to 100°F, (20° to 40°C) and below 50% relative humidity or holding oven @ 100° to 120°F (38° to 49°C)
Reconditioning	250°F to 300°F, (121° to 149°C) for one hour @ temperature

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Stick Electrodes (SMAW)

AWS E8018-B2 H4R, E9018-B3 H4R, E11018M H4R
Low Alloy, Low Hydrogen

**AC
DC+**

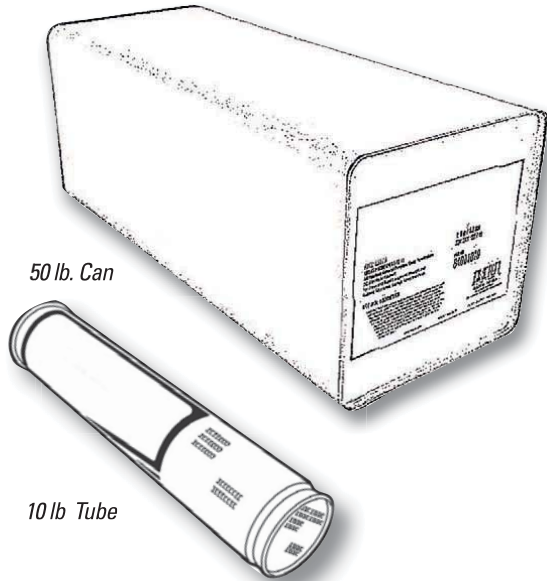
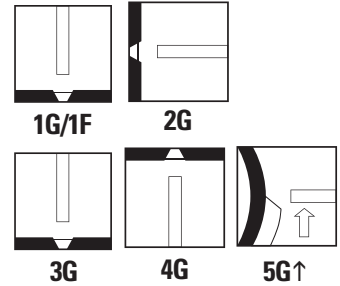
Typical Applications

- Chrome-moly pipes
- Castings, forgings, boiler work
- Low-alloy steels including HY-80, HY-90 and T-1
- Power generation
- Pressure vessels
- Process piping
- Petrochemical
- High strength steels (11018)

Approvals and Conformances

- AWS A5.5
- ASME SFA 5.5
- ABS
- CWB/CSH W48

Welding Positions



AWS E8018-B2 MR, E9018-B3, E11018M MR Ordering Information and Packaging

**LINCOLN
ELECTRIC**

Excalibur®

Diameter (inches)	10 lb Can 30 lb Master Carton (overpack)	50 lb Can
Excalibur® 8018-B2 MR		
1/8	LINED032879	LINED032882
5/32	—	LINED032883
Excalibur® 8018-C		
3/32	—	LINED030892
1/8	—	LINED030877
5/32	—	LINED030894
Excalibur® 9018-B3 MR		
1/8	LINED032885	LINED032888
5/32	—	LINED032889
Excalibur® 11018M MR		
3/32	—	LINED031975
1/8	LINED032607	LINED031976
5/32	LINED032608	LINED031977
3/16	—	LINED031978

HOBART

HOBALLOY®

Diameter (inches)	10 lb Can	50 lb Can
HOBALLOY® 8018B2		
3/32	HOBS125432-033	HOBS125432-035
1/8	HOBS125444-033	HOBS125444-035
5/32	—	HOBS125451-035
3/16	—	HOBS125458-035
HOBALLOY® 9018B3		
3/32	—	HOBS125532-035
1/8	—	HOBS125544-035
5/32	—	HOBS125551-035
3/16	—	HOBS125558-035
HOBALLOY® 11018M		
3/32	HOBS126032-033	HOBS126032-035
1/8	HOBS126044-033	HOBS126044-035
5/32	HOBS126051-033	HOBS126051-035
3/16	HOBS126058-033	HOBS126058-035
1/4	—	HOBS126081-035

ESAB

AtomArc®

Diameter (inches)	10 lb Can	50 lb Can
AtomArc 8018-B2		
3/32	ESA255053324	ESA255053316
1/8	ESA255051823	ESA255051443
5/32	ESA255055329	ESA255051518
3/16	ESA255053126	ESA255053118
AtomArc® 8018-C3		
3/32	—	ESA255047342

Diameter (inches)	10 lb Can	50 lb Can
AtomArc® 9018-CM		
3/32	ESA255073322	ESA255073314
1/8	ESA255071821	ESA255071813
5/32	ESA255075327	ESA255075319
3/16	ESA255073124	ESA255073116
1/4	—	ESA255071417
AtomArc® T		
3/32	ESA255113326	ESA255113318
1/8	ESA255111825	ESA255111817
5/32	ESA255115321	ESA255115313
3/16	ESA255113128	ESA255113110

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Stick Electrodes (SMAW)

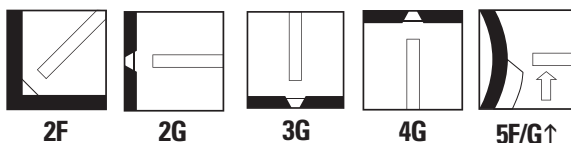
AWS E308/308L-16, E309/309L-16, E316/316L-16 Stainless Stick Electrodes

Stainless Stick (SMAW) Electrode Selection Guide

Product Name		Key Features		Diameters Available in (mm)		
Stainless Steel				3/32 (2.4)	1/8 (3.2)	5/32 (4.0)
E308/308L	Designed for welding austenitic stainless steel of the ASTM 304 and 304L type and offers maximum resistance to intergranular corrosion			✓	✓	✓
E309/309L	An over-alloyed electrode intended for welding stainless steel unalloyed or low-alloy steels. The electrode has a composition that, under normal welding conditions, ensures a crack resistant weld metal			✓	✓	✓
E316/316L	Used for welding austenitic Cr-Ni-Mo steels of ASTM 316 and 316L types			✓	✓	✓

IMPORTANT: SPECIAL VENTILATION AND/OR EXHAUST REQUIRED
Fumes from the normal use of some welding products can contain significant quantities of components - such as chromium and manganese which can lower the 5.0 mg/m³ maximum exposure guideline for general welding fume. BEFORE USE, READ AND UNDERSTAND THE MATERIAL SAFETY DATA SHEET (MSDS) FOR THIS PRODUCT AND SPECIFIC INFORMATION PRINTED ON THE PRODUCT CONTAINER.

Welding Positions



Approvals and Conformances

- AWS A5.4
- ASME SFA - A5.4
- ABS
- CWB

RADNOR

Diameter (inches)	3 lb Pkg
E308/308L-16	
3/32	RAD64001161
1/8	RAD64001163
5/32	RAD64001165
E309/309L-16	
3/32	RAD64001167
1/8	RAD64001169
5/32	RAD64001171
E316/316L-16	
3/32	RAD64001173
1/8	RAD64001175
5/32	RAD64001177

*Sold per package

LINCOLN

ELECTRIC

Diameter (inches)	10 lb Can
Red Baron® 308L MR	
1/8	LINED033080
5/32	LINED033081
3/16	LINED033082
Red Baron® 309/309L MR	
1/8	LINED033094
5/32	LINED033095
3/16	LINED033096
Red Baron® 316/316L MR	
1/8	LINED033105
5/32	LINED033106
3/16	LINED033107

McKAY

Diameter (inches)	10 lb Can
308/308H Sterling® AP	
1/8	MCKS481844-033
5/32	MCKS481851-033
3/16	MCKS481858-033
1/4	MCKS481880-033
308/308L Sterling® AP	
1/8	MCKS481944-033
309/309L Sterling® AP	
1/8	MCKS483944-033
5/32	MCKS483951-033
3/16	MCKS483958-033
1/4	MCKS483980-033
316/316L Sterling® AP	
1/8	MCKS482944-033
5/32	MCKS482951-033
3/16	MCKS482958-033

Diameter (inches)	10 lb Can
ARCALOY 308/308H-16	
3/32	ESA252026562
1/8	ESA252026547
5/32	ESA252026554
3/16	ESA252026612
1/4	ESA252026620
ARCALOY 309/309H-16	
3/32	ESA251055893
1/8	ESA251055919
5/32	ESA251055943
ARCALOY 316/316H-16	
3/32	ESA251185641
1/8	ESA251185674



Diameter (inches)	8 lb Tube	9 lb Tube
308L-16		
3/32	AVE60745	—
1/8	—	AVE60746
309L-16		
3/32	AVE60751	—
1/8	—	AVE60752
316L-16		
3/32	AVE60748	—

Avesta

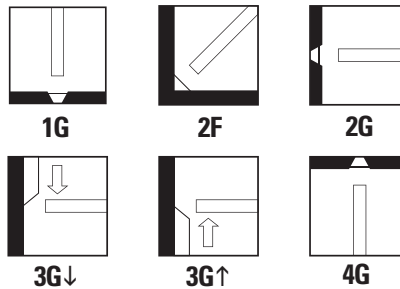
Welding

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70S-2, 70S-6 — AWS ER70S-2, ER70S-6 Carbon Steel TIG Rod



Welding Positions



DC-

TIG Rods (GTAW)
RADNOR®



**Recommended
Shielding Gas**
• Argon

Advantage Radnor®

- 36" cut length rods embossed on each end for ease of alloy identification even after the rod is partially consumed
- Packaged in 1 lb. and 10 lb. cartons, for the hobbyist through heavy industrial user
- Available in a variety of diameters for virtually every welding need

Radnor® ER70S-2

Radnor® ER70S-2 is a premium TIG wire for welding on all grades of mild and carbon steels, producing quality welds with minimal porosity. It is a triple deoxidized wire (Zirconium, Titanium, and Aluminum) making it an excellent choice for welding over rust and mill scale. No flux is required with this product.

Radnor® ER70S-6

Radnor® ER70S-6 is a mild steel welding wire that contains higher levels of manganese and silicon than other standard grades of MIG wire to produce high quality welds when used on dirty, oily, or rusty steel. The high silicon content increases the fluidity of the weld pool, thus creating a smoother bead appearance and resulting in minimal postweld grinding. This wire is engineered to provide porosity-free, x-ray quality welds at the highest tensile strength (as welded) of all the plain carbon steel wires.

Typical Applications - ER70S-2

- Pipes
- Offshore drilling rigs
- Structural steel work

Typical Applications - ER70S-6

- General shop applications with poor fit-up or rusty, oily plates
- Steel castings or forging salvage
- Home projects, tanks, sheet metal, construction work

Approvals and Conformances

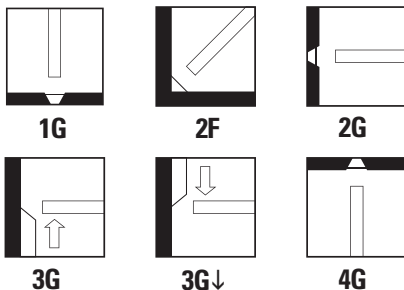
- AWS A5.18: ER70S-2, ER70S-6
- ASME SFA-5.18: ER70S-2, ER70S-6

Ordering Information and Packaging - ER70S-2, ER70S-6

Diameter (Inches)	ER70S-2 1 lb Tube	ER70S-2 10 lb Box	ER70S-6 10 lb Box
1/16	RAD64001641	RAD64001646	RAD64001540
3/32	RAD64001645	RAD64001647	RAD64001542
1/8	RAD64001643	RAD64001648	RAD64001544

5356 — ER5356 Aluminum TIG Rod

Welding Positions



AC

Recommended Shielding Gas

- Argon
- Gold Gas® AluMIX™



Advantage Radnor

- Pristine surface condition monitored in the manufacturing process to ensure excellent weld quality
- 36" cut length rods embossed on each end for ease of alloy identification even after the rod is partially consumed
- Packaged in 1 lb. and 10 lb. cartons, in a variety of wire diameters for virtually every welding application

Radnor® ER5356

Aluminum-magnesium alloy for use on many weldable cast and wrought aluminum alloys. Radnor® 5356 is generally recommended for welding any 5000 or 6000 series aluminum alloys. Excellent for color matching after anodizing.

Typical Applications

- Aluminum base metals
- Architectural structures
- Armored vehicles
- Gun mount bases

Approvals and Conformances

- AWS A5.10: ER5356
- ASME SFA-5.10: ER5356
- CWB

Ordering Information and Packaging - ER5356

Diameter (Inches)	1 lb Tube	10 lb Box
1/16	RAD64001559	RAD64001597
3/32	RAD64001561	RAD64001598
1/8	RAD64001563	RAD64001599

Timco offers all filler metal brands, sizes and alloys. The most popular sizes, brands and packages are shown in this guide. Please contact your Timco representative if you can't find what you need.

Gas
Equipment

Welding &
Cutting Equipment

Welding
Support

Filler Metals

MRO Supplies

Safety

Index

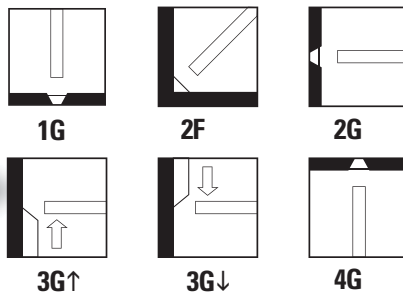
TIG Rods (GTAW)

ER308/308L, ER309/309L, ER316/316L Stainless Steel TIG Rod

This high-quality stainless steel TIG rod is used in the construction industry on DC- polarity.



Welding Positions



Recommended Shielding Gas

ER308/308L

- Argon
- StainMIX™

ER309/309L

- Argon
- StainMIX™

ER316/316L

- Argon
- StainMIX™

Benefits

- Capable of x-ray quality welds
- Manufactured under lot control. Certificate of Test is available upon request
- 36" cut length rods embossed on each end for ease of alloy identification even after the rod is partially consumed
- Packaged in 1 lb. tubes

Typical Applications

- Sheet metal applications on the appropriate stainless steel base metals
- High pressure piping and tubing

Approvals and Conformances

- AWS A5.9: ER308/308L, ER309/309L, ER316/316L
- ASME SFA-5.9: ER308/308L, ER309/309L, ER316/316L

ER308/308L

308/308L stainless steel cut lengths are used to weld Types 201, 302, 304 and 308 stainless steels. It can also be used for joining some dissimilar 300- series steels. 308/308L has a low carbon content to help prevent intergranular corrosion.

ER309/309L

309/309L stainless steel cut lengths are used for joining similar 309L alloys or for joining 300-series stainless steels to carbon or low alloy steels.

ER316/316L

316/316L stainless steel cut lengths are formulated with molybdenum for increased pitting corrosion resistance and low carbon for better intergranular corrosion.

ER308/308L, ER309/309L, ER316/316L Ordering Information and Packaging

Radnor® ER308L, ER316L

Diameter (Inches)	ER308L 1 lb Tube	ER316L 1 lb Tube
1/16	RAD64001547	RAD64001583
3/32	RAD64001549	RAD64001585
1/8	RAD64001551	RAD64001587

RADNOR®

Radnor® by McKay® ER308L, ER309L, ER316L

Diameter (Inches)	ER308/308L 10 lb Tube	ER309/309L 10 lb Box	ER316/316L 10 lb Box
1/16	RAD64004450	RAD64004456	RAD64004462
3/32	RAD64004451	RAD64004457	RAD64004463
1/8	RAD64004452	RAD64004458	RAD64004464

RADNOR®

Avesta ER308L/308LSi, ER316L /316LSi

Diameter (Inches)	ER308L 10 lb Box	ER308LSi 10 lb Box	ER316L 10 lb Box	ER316LSi 10 lb Box
0.035	AVE59471	—	—	—
0.045	AVE59478	—	AVE59480	—
1/16	AVE59405	AVE59401	AVE59409	AVE59402
3/32	AVE59428	AVE59423	AVE59431	AVE59425
1/8	AVE59448	AVE59444	AVE59451	AVE59445
5/32	—	AVE59458	AVE59461	—

Avesta
Welding

Sandvik ER308L, ER316L

Diameter (Inches)	ER308/308L 10 lb Box	ER308LSi 10 lb Box	ER316L 10 lb Box	ER316LSi 10 lb Box
0.045	SAN308L045T	—	—	—
1/16	SAN308L063T	—	SAN316L063T	SAN316LSI063T
3/32	SAN308L093T	SAN308LSI093T	SAN316L093T	—
1/8	SAN308L125T	—	SAN316L125T	—
5/32	SAN308L156T	—	SAN316L156T	—
3/16	—	—	SAN316L187T	—

SANDVIK

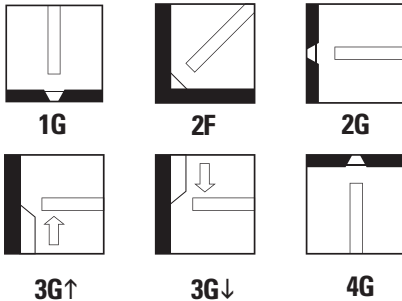
Timco offers all filler metal brands, sizes and alloys. The most popular sizes, brands and packages are shown in this guide. Please contact your Timco representative if you can't find what you need.

4043, 5356 — AWS ER4043, ER5356 Aluminum MIG Wire

ER4043 is a great choice for the welding of heat-treatable base alloys and more specifically the 6XXX series alloys. It has a lower melting point and more fluidity than the 5XXX series filler alloys and is preferred by welders because of its favorable operating characteristics. ER4043 type wires are also less sensitive to weld cracking with the 6XXX series base alloys. ER4043 is suitable for sustained elevated temperature service, i.e. above 150°F.

ER5356 is our most popular aluminum MIG wire. It is a great general-purpose filler alloy designed for the welding of 5XXX series alloys when 40,000 ksi (276 MPa) tensile strength is not required.

Welding Positions



Benefits

- All-position aluminum MIG wire
- Superior wire surface finish for the best feedability and arc performance
- Optimal manufacturing process to precisely control chemical composition
- State-of-the-art testing equipment to ensure trouble-free performance of the weld wire



Recommended Shielding Gas

- Argon
- Gold Gas® AlumMIX®

Typical Applications

- Fabrication on the appropriate aluminum base metals
- Tanks/tankers
- Aluminum piping
- Trucks/trailers
- Toolboxes

ER4043:

- Bicycle frames
- Automotive frames and drive shafts



ER5356:

- Automotive bumpers and supports
- Formed truck panels
- Structural frames in the shipbuilding industry

Approvals and Conformances

- AWS A5.10: ER4043, ER5356
- ASME SFA-5.10: ER4043, ER5356
- CWB

AWS ER4043/ER5356 Ordering Information and Packaging

RADNOR®					
Radnor® ER4043			Radnor® ER5356		
Diameter (Inches)	1 lb Plastic Spool	16 lb Plastic Spool	Diameter (Inches)	1 lb Plastic Spool	16 lb Plastic Spool
.030	RAD64001500	—	.030	RAD64001512	—
.035	RAD64001502	RAD64001508	.035	RAD64001514	RAD64001520
3/64	RAD64001504	RAD64001510	3/64	RAD64001516	RAD64001522
1/16	—	RAD64001511	1/16	—	RAD64001523

LINCOLN® ELECTRIC		
SuperGlaze® ER4043, ER5356		
Diameter (Inches)	16 lb 12" Plastic Spool	20 lb Plastic Spool
ER4043		
.035	LINED028395	—
3/64	—	LINED029234
ER5356		
.035	LINED028385	—
3/64	—	LINED030282

AlcoTec ER4043 Almigweld

Diameter (Inches)	1 lb Spool	14 lb 12" Spool	16 lb 12" Spool	16 lb Basket	20 lb 12" Spool
.030	ATC404301030	ATC404315030	—	—	—
.035	ATC404301035	—	ATC404315035	ATC404316035	—
.040	—	—	ATC404315040	ATC404316040	—
.079	—	—	ATC404315079	—	—
3/64	ATC404301047	—	—	ATC404316047	ATC404320047
1/16	ATC404301062	—	—	ATC404316062	ATC404320062

AlcoTec ER5356 Almigweld

Diameter (Inches)	1 lb Spool	14 lb 12" Spool	16 lb 12" Spool	16 lb Wire Basket	20 lb 12" Spool
.030	ATC535601030	ATC535615030	—	—	—
.035	ATC535601035	—	ATC535615035	ATC535616035	—
.040	—	—	ATC535615040	ATC535616040	—
3/64	ATC535601047	—	—	ATC535616047	ATC535620047
1/16	ATC535601062	—	—	ATC535616062	ATC535620062

Timco offers all filler metal brands, sizes and alloys. The most popular sizes, brands and packages are shown in this guide. Please contact your Timco representative if you can't find what you need.

MIG Wire (GMAW)

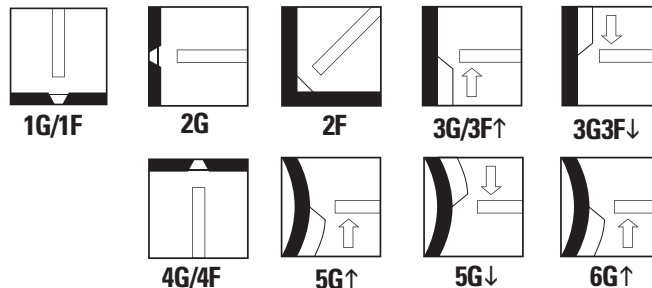
AWS ER70S-6 Mild Steel MIG Wire



DC

Copper-coated, mild steel MIG wire is an excellent choice for welding on metals with a low-to-medium presence of surface contaminants such as rust or mill scale. It is a low carbon, high manganese, and very high silicon wire that exhibits very good puddle fluidity, bead profile and spatter control. Mild steel filler wire is designed to extract maximum weld quality and user approval from ER70S-6 wire. Great for short circuit, globular, axial spray and spray transfer welding. It's also great for welding steel with light mill scale, and light rust or thin oil.

Welding Positions



Benefits

- Excellent spatter control and bead profile
- The surface treatment is designed to provide smooth trouble-free feeding performance
- Copper coating provides superior arc-starting characteristics, for long contact tip life
- All-position welding
- Highly resistant to copper flaking, which can clog liners and contact tips

Typical Applications

- General-purpose, clean surface metals
- Low carbon killed and semi killed steel
- Automatic or semi-automatic welding
- Single to multi-pass weld applications
- Pipe welding, structural steel, and steel buildings
- Well suited for short circuit, globular, and spray transfer welding
- HVAC ductwork
- Structural, automotive, and general fabrication
- Pressure vessels

Approvals and Conformances

- AWS A5.18-93: ER70S-6
- ASME SFA-5.18: ER70S-6
- AWS
- CWB
- ABS
- D1-1
- 3YSA

Recommended Shielding Gas

- Gold Gas® SteelMIX®
- Gold Gas® SteelMIX® 3 (Sheet/Gauge)
- Gold Gas® SteelMIX® Extra (Automated)
- Argon / CO₂ Mixture (75% - 25%)
- CO₂
- Argon / Oxygen Mixture (Spray Transfer)



AWS ER70S-6 Ordering Information and Packaging

RADNOR®

Radnor® ARCPlus 6

Diameter (Inches)	44 lb Fiber Spool
.035	RAD64004060
.045	RAD64004061

Radnor® S-6

Diameter (Inches)	33 lb Steel Spool	33 lb Plastic Spool	44 lb Steel Spool	44 lb Fiber Spool
.035	RAD64004011	RAD64004042	RAD64004016	RAD64004020
.045	RAD64004012	RAD64004043	RAD64004017	RAD64004021

Radnor® P3

Diameter (Inches)	2 lb Plastic Spool	11 lb Plastic Spool	33 lb Masonite Spool	45 lb Masonite Spool
.025	RAD64004176	RAD64004180	RAD64004184	—
.030	RAD64004177	RAD64004181	RAD64004185	RAD64004188
.035	RAD64004178	RAD64004182	RAD64004186	RAD64004189
.045	RAD64004179	RAD64004183	RAD64004187	RAD64004190
.052	—	—	—	RAD64004191
.062	—	—	—	RAD64004192

Radnor® P3

Diameter (Inches)	60 lb Masonite Spool
.035	RAD64004193
.045	RAD64004194
.052	RAD64004195
.062	RAD64004196

Timco offers all filler metal brands, sizes and alloys. The most popular sizes, brands and packages are shown in this guide. Please contact your Timco representative if you can't find what you need.

AWS ER70S-6 Ordering Information and Packaging



SuperArc® L-56

Diameter (inches)	33 lb Plastic Spool	33 lb Steel Spool	44 lb Fiber Spool
0.030	LINED032926	—	—
0.035	LINED032927	LINED031411	LINED021274
0.040	LINED032928	—	LINED027384
0.045	—	LINED031412	LINED021276
0.052	—	—	LINED021278

SuperArc® L-56

Diameter (inches)	44 lb Steel Spool	60 lb Fiber Spool
0.035	LINED025945	LINED021275
0.045	LINED025946	LINED021277
0.052	—	LINED021279

SuperGlide® S6

Diameter (inches)	44 lb Fiber Spool
0.035	LINED028635
0.045	LINED028636

SuperArc® L-59

Diameter (inches)	44 lb Fiber Spool	44 lb Steel Spool	60 lb Fiber Spool
0.035	LINED033033	LINED032366	—
0.045	—	LINED032367	—
0.052	—	LINED032368	LINED032814
1/16	—	LINED032968	—

Hobart® QuantumArc™ 6



Diameter (inches)	33 lb Steel Reel™	45 lb Steel Reel™	45 lb Spool	60 lb Spool
0.035	HOBS307608-033	HOBS307608-045	HOBS307608-085	HOBS307608-028
0.040	—	—	HOBS307610-085	—
0.045	HOBS307612-033	HOBS307612-045	HOBS307612-085	HOBS307612-028
0.052	—	—	—	HOBS307615-028

Hobart® QCL-6

Diameter (inches)	30 lb Spool	45 lb Spool	60 lb Spool
0.035	HOBS303808-026	HOBS303808-085	—
0.045	—	HOBS303812-085	HOBS303812-028

Hobart® HB-28

Diameter (inches)	33 lb Spool	45 lb Spool
0.024	HOBS305401-033	—
0.030	HOBS305406-033	—
0.035	HOBS305412-033	HOBS305408-045
0.045	—	HOBS305412-045



ESAB® MIG-6

Diameter (inches)	33 lb Spool	44 lb Spool	60 lb Spool
0.030	ESA1638C04	—	—
0.035	ESA163TC85	ESA1632C25	—
0.045	ESA163TC87	ESA1632C27	ESA1638C47A

ESAB® SpoolArc 86

Diameter (inches)	33 lb Spool	44 lb Spool	65 lb Coil
0.025	ESA1388F03	—	—
0.030	ESA1388F04	ESA1382F04	—
0.035	ESA1388F05	ESA1382F05	ESA1384F25
0.040	—	ESA1382F06	—
0.045	ESA1388F07	ESA1382F07	ESA1384F27

ESAB® OK Aristorod 12.50

Diameter (inches)	40 lb Spool
0.035	ESA1A5009691A
0.045	ESA1A5011691A
0.052	ESA1A5013691A

Timco offers all filler metal brands, sizes and alloys. The most popular sizes, brands and packages are shown in this guide. Please contact your Timco representative if you can't find what you need.

Gas Equipment

Welding & Cutting Equipment

Welding Support

Filler Metals

MRO Supplies

Safety

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Technical Information

How to Calculate Filler Metal Consumption

Use the tables below to estimate the quantity of filler metal required for horizontal fillet welds, square groove, and V-groove butt joints. In cases where joint information differs from the tables, simply substitute your numbers in the following formula:

$$W = \frac{D}{(1-L)}$$

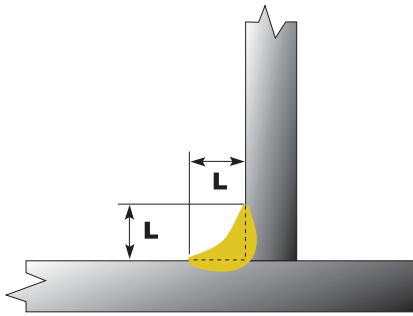
Where –

W is the weight of the wire consumed
D is the weight of the steel deposited*
L is the total amount of wire losses

To determine D, calculate the area of the groove multiplied by the length; then multiply the result by 0.283, the volume-to-weight conversion factor for steel. If weld reinforcement is involved, be sure to add this amount to your calculation, e.g., $D = [(Area\ of\ groove \times Length\ of\ groove \times 0.283) + Reinforcement\ (if\ applicable)]$.

* Table data for square and V-groove joints are based on the efficiency of stick electrodes. To calculate for flux-cored wires, divide D by .80; for solid wire, divide D by .90.

Horizontal Fillet Weld

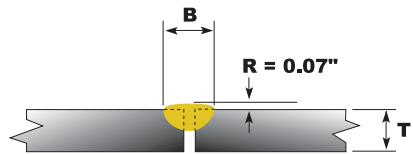


Horizontal Fillet Weld

Size of Fillet "L" (inches)	Steel Deposited per Linear Foot of Weld (lb)	Pounds of Wires Required per Linear Foot of Weld (approx.)		
		Stick* (SMAW)	Flux Cored (FCAW)	Solid (GMAW)
1/8"	0.027	.049	.034	.03
3/16"	0.063	.114	.079	.07
1/4"	0.106	.193	.133	.118
5/16"	0.166	.302	.208	.184
3/8"	0.239	.434	.298	.265
1/2"	0.425	.773	.531	.472
5/8"	0.663	1.205	.829	.737
3/4"	0.955	1.736	1.194	1.061
1"	1.698	3.087	2.123	1.890

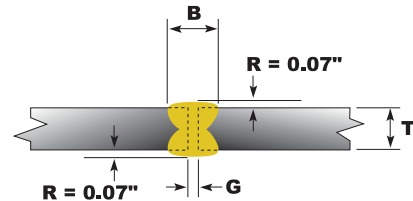
Square Groove Butt Joint

...welded one side.



...welded two sides.

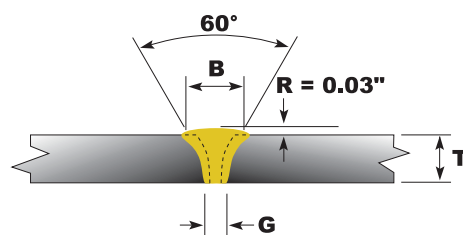
If root of top weld is chipped or flame gouged and welded, add 0.07 lb. to steel deposited (equivalent to approximately 0.13 lb of wires).



Square Groove Butt Joint

Joint Dimensions (inches)			Steel Deposited per Linear Foot of Weld (lb)		Pounds of Wire Required per Linear Foot of Weld (approx.)	
Metal Thickness T	Bead Width B	Root Open G	Without Reinforcement	With Reinforcement (R**=0.08")	Without Reinforcement	With Reinforcement (R**=0.08")
3/16"	3/8"	0	—	0.088	—	0.16
—	—	1/16"	0.020	0.109	0.04	0.20
1/4"	7/16"	1/16"	0.027	0.129	0.05	0.23
—	—	3/32"	0.039	0.143	0.07	0.26
5/16"	1/2"	1/16"	0.033	0.153	0.06	0.27
—	—	3/32"	0.050	0.170	0.09	0.30
1/8"	1/4"	0	—	0.119	—	0.21
—	—	1/32"	0.013	0.132	0.03	0.24
3/16"	3/8"	1/32"	0.020	0.199	0.04	0.36
—	—	1/16"	0.040	0.218	0.07	0.39
1/4"	7/16"	1/16"	0.053	0.261	0.10	0.47
—	—	3/32"	0.080	0.288	0.14	0.53

"V" Groove Butt Joint



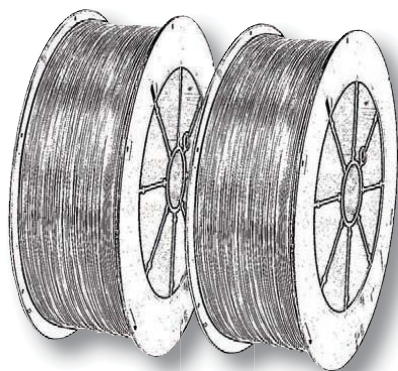
"V" Groove Butt Joint

Joint Dimensions (inches)			Steel Deposited per Linear Foot of Weld (lb)		Pounds of Wire Required per Linear Foot of Weld (approx.)	
Metal Thickness T	Bead Width B	Root Open G	Without Reinforcement	With Reinforcement (R**=0.08")	Without Reinforcement	With Reinforcement (R**=0.08")
1/4"	0.207"	1/16"	0.085	0.143	0.15	0.25
5/16"	0.311"	3/32"	0.173	0.258	0.31	0.46
3/8"	0.414"	1/8"	0.282	0.394	0.50	0.70
1/2"	0.588"	1/8"	0.489	0.641	0.87	1.15
5/8"	0.702"	1/8"	0.753	0.942	1.35	1.68
3/4"	0.847"	1/8"	1.088	1.320	1.94	2.35
1"	1.138"	1/8"	1.930	2.240	3.45	4.00

* Includes scrap end and spatter Loss

** R=Height of reinforcement

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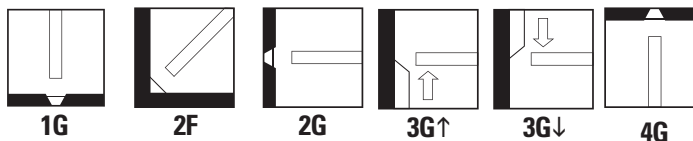
ER308LSi, ER309LSi, ER316LSi — Stainless Steel MIG Welding Wire

ER308LSi, ER309LSi, ER316LSi

High-quality stainless steel MIG welding wire use in the construction industry or for those who require large amounts of material in larger quantities with higher silicon for better welding action.

DC+

Welding Positions



ER308LSi

308L HiSil is a stainless steel solid wire with 308L chemistry that has been modified to offer a higher silicon level for increasing weld puddle fluidity, as well as for ensuring tie-ins and potentially higher welding speeds.

ER309LSi

A modified version of 309L stainless steel solid wire, 309L HiSil has increased silicon levels to overcome the typical sluggish nature of 300-series stainless steel welding puddles.

ER316LSi

Featuring a silicon level that is higher than 316L, 316L HiSil stainless steel wire also provides better wetting action, particularly for GMAW processes.

Approvals and Conformances

- AWS A5.9: ER308LSi, ER309LSi, ER316LSi
- ASME SFA-5.9: ER308LSi, ER309LSi, ER316LSi
- CWB



Recommended Shielding Gas

- Gold Gas®
- StainMIX™ 3
- Gold Gas®
- StainMIX™

AWS ER308/308LSi, ER309/309LSi, ER316/316LSi Ordering Information and Packaging

LINCOLN
ELECTRIC

Blue Max® MIG 308LSi, 309LSi, 316LSi

Diameter (Inches)	25 lb Plastic Spool
ER308LSi	
.030	LINED023961
.035	LINED019292
.045	LINED019293
1/16	LINED019294
ER309LSi	
.030	LINED023962
.035	LINED019295
.045	LINED019296
1/16	LINED019297
ER316LSi	
.030	LINED023963
.035	LINED019298
.045	LINED019299
1/16	LINED019300

Murex® 308LSi, 316LSi

Diameter (Inches)	25 lb Plastic Spool
ER308LSi	
.035	LINEDM23447133
ER316LSi	
.035	LINEDM23447733

Radnor® by McKay® ER308LSi, ER309LSi, ER316LSi

RADNOR

Diameter (Inches)	ER308LSi 30 lb Plastic Spool	ER309LSi 30 lb Plastic Spool	ER316LSi 30 lb Plastic Spool
.035	RAD64004430	RAD64004438	RAD64004446
.045	RAD64004431	RAD64004439	RAD64004447



ESAB® ER308LSi, ER309LSi, Ok Autrod 16.95

Diameter (Inches)	10 lb Spool	33 lb Plastic Spool
ER308LSi		
.030	—	ESA258123116
.035	ESA258125525	ESA258123512
.045	—	ESA258124510
1/16	—	ESA258121110
ER309LSi Arcaloy®		
.045	—	ESA258027028
Ok Autrod 16.95		
.035	—	ESA169509982A

Sandvik ER308LSi, ER309LSi, ER316LSi



Diameter (Inches)	33 lb Plastic Spool
ER308LSi Sandvik 19.9 LSi	
.035	SAN308LSI03533
ER316LSi Sandvik 19.12.3 LSi	
.035	SAN316LSI03533

Avesta
Welding

Avesta ER308LSi, ER309LSi, ER316LSi

Diameter (Inches)	10 lb Plastic Spool	33 lb Plastic Spool
ER308LSi		
.030	AVE59196	AVE59204
.035	AVE59221	AVE59240
.045	—	AVE59297
ER309LSi		
.035	AVE59241	—
ER316LSi		
.030	AVE59198	—
.035	AVE59223	AVE59242

Timco offers all filler metal brands, sizes and alloys. The most popular sizes, brands and packages are shown in this guide. Please contact your Timco representative if you can't find what you need.

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Tubular Flux Cored Welding Wire (FCAW)

71T-11 — AWS E71T-11

Flux-Cored Carbon Steel Tubular Wire Self-Shielding

E71T-11 is a general-purpose self-shielded tubular wire that is designed for welding thin gauge mild or galvanized steel. Suitable for single or multiple-pass applications, especially for fillet and lap welds, you will get outstanding welding performance as E71T-11 produces a smooth spray arc-type of transfer with good wetting action. Great for welding outdoors or in drafty conditions, this all-position wire also provides very low spatter levels, resulting in a weld bead that is excellent in appearance.

DC- Welding Positions



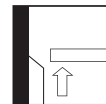
1G/1F



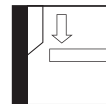
2G



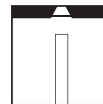
2F



3G/3F↑



3G/3F↓



4G/4F



Benefits

- Good side-wall fusion
- Requires less metal for a given joint design
- Self-shielded, no external shielding gas required
- Very versatile, accommodates many applications
- Easy to weld, ideal for less skillful welders

Typical Applications

- Prefab building fabrication
- Tanks
- Ornamental iron
- Farm implement repairs
- General fabrication

Approvals and Conformances

- AWS A5.20, Class E71T-11
- ASME SFA 5.20, Class E71T-11
- CWB

AWS E71T-11 Ordering Information and Packaging

Radnor® 71T-11

Diameter (Inches)	10 lb Plastic Spool	25 lb Plastic Spool
.030	RAD64001402	RAD64001404
.035	RAD64001408	RAD64001410
.045	RAD64001414	RAD64001416

RADNOR®

Hobart® Fabshield® 21B

Diameter (Inches)	10 lb Spool	33 lb Spool	14 lb Coil	50 lb Coil
.035	HOBS222108-022	HOBS222108-029	—	—
.045	HOBS222112-022	HOBS222112-029	—	—
1/16	HOBS222119-022	HOBS222119-029	—	—
.068	—	HOBS222123-029	—	—
5/64	—	HOBS222125-029	HOBS222125-001	HOBS222125-014

HOBART®

Timsco offers all filler metal brands, sizes and alloys. The most popular sizes, brands and packages are shown in this guide. Please contact your Timsco representative if you can't find what you need.

AWS E71T-11 Ordering Information and Packaging

Innershield® NR-211-MP

Diameter (Inches)	10 lb Plastic Spool
.030	LINED033130
.035	LINED016354
.045	LINED016363



E70TG-K2 Innershield® NR-311

Diameter (Inches)	25 lb Spool
5/64	LINED030650

Innershield® NR-211-MP

Diameter (Inches)	14 lb Coil 56 lb Master Carton (overpack)	25 lb Steel Spool	50 lb Coil
.035	—	LINED030637	—
.045	—	LINED030638	—
.068	LINED012506	LINED030641	LINED012507
5/64	LINED012508	LINED030645	LINED012509
3/32	—	—	LINED013869

E71T-14 Innershield® NR-152

Diameter (Inches)	50 lb Coil
.068	LINED012186

E71G-G Innershield® NR-212

Diameter (Inches)	10 lb Spool
.045	LINED026090

E71T-8 Innershield® NR-232

Diameter (Inches)	13 1/2 lb Coil	14 lb Coil	25 lb Coil	50 lb Coil
.068	LINED012518	—	—	—
.072	—	LINED012522	LINED030644	LINED012523
5/64	LINED012525	—	—	LINED012526

E71T-8 Innershield® NR-233

Diameter (Inches)	25 lb Spool
.072	LINED031030
1/16	LINED030934

E70T-4 Innershield® NS-3M

Diameter (Inches)	14 lb Coil	50 lb Coil
.120	—	LINED012732
5/64	LINED012739	—
3/32	—	LINED012736

E70T-6 Innershield® NR-305

Diameter (Inches)	25 lb Coil	50 lb Coil
5/64	LINED030648	—
3/32	—	LINED012593

E70T-7 Innershield® NR-311

Diameter (Inches)	14 lb Coil	25 lb Coil	50 lb Coil
7/64	—	—	LINED012632
5/64	LINED014464	LINED030649	LINED014459
3/32	—	—	LINED012629

E71TG-G Innershield® NR-212

Diameter (Inches)	14 lb Coil	25 lb Coil
.045	—	LINED030639
.068	LINED027803	LINED030642
5/64	LINED027794	LINED030646

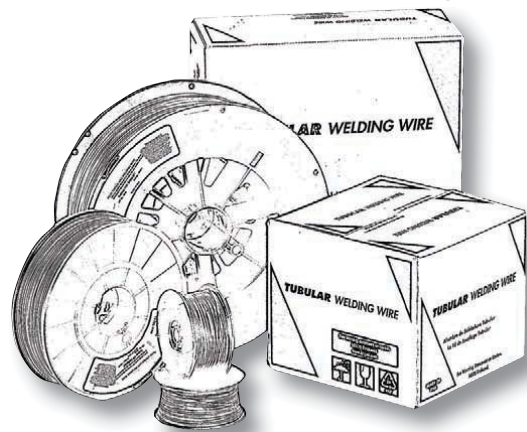
ESAB® Coreshield



Diameter (Inches)	10 lb Spool	25 lb Plastic Spool	33 lb Plastic Spool
E71T8-Ni1 Coreshield 8			
.072	—	ESA242206365	—
1/16	—	ESA242206357	—
5/64	—	ESA242206373	—
E71T-8 Coreshield 8			
.072	—	ESA242206423	—
E71T-11 Coreshield 11			
.035	ESA242203511	—	ESA242203503
.045	ESA242201440	—	ESA242201408
1/16	ESA242201465	—	ESA242201424
5/64	—	ESA242201416	—
E71T-GS Coreshield 15			
.045	—	—	ESA242201614

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Tubular Flux Cored Welding Wire (FCAW)



DC+

71T-1 — AWS E71T-1M/9M Tubular Welding Wire Gas Shielding

E71T-1 is designed to provide good penetration with a wide range of welding parameters. This is an all-position wire with lower fume generation; easy slag removal and low spatter levels. This product is designed to be used with 75% Ar-25% CO₂ external shielding gas but also operates well with 100% CO₂ shielding gas.

Welding Positions



1G/1F



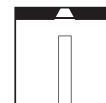
2G



2F



3G/3F↑



4G/4F

Benefits

- All-position wire
- Easy slag removal
- Low spatter levels
- Low fume generation
- Easy to weld, ideal for less skillful welders

Typical Applications

- Heavy equipment
- Off-shore drilling
- Shipbuilding
- Storage tank manufacturing
- General fabrication
- Bridge fabrication
- Pressure vessel

Approvals and Conformances

- AWS A5.20, Class E71T-1M/9M
- ASME SFA 5.20, Class E71T-1M/9M
- CWB
- ABS



Recommended Shielding Gas

- Argon / CO₂ Mixture (75% - 25%)
- CO₂

AWS E71T-1 Ordering Information and Packaging

Radnor® E71T-1

Diameter (Inches)	10 lb Spool	15 lb Spool	33 lb Spool	44 lb Spool	60 lb Coil
.035	RAD64004320	RAD64004321	RAD64004322	RAD64004323	—
.045	RAD64004325	RAD64004326	RAD64004327	RAD64004328	RAD64004329
.052	RAD64004331	RAD64004332	RAD64004333	RAD64004334	RAD64004335
1/16	RAD64004337	RAD64004338	RAD64004339	RAD64004340	RAD64004341

RADNOR

Hobart® Excel-Arc® 71

Diameter (Inches)	60 lb Coil
.045	HOBS247112-002
1/16	HOBS247119-002

HOBART

Hobart® Excel-Arc® 71

Diameter (Inches)	33 lb 12" Fiber Spool	44 lb 12" Fiber Spool
.045	HOBS247112-029	HOBS247112-044
.052	HOBS247115-029	HOBS247115-044
1/16	HOBS247119-029	HOBS247119-044

McKay Speed-Alloy 71

Diameter (inches)	10 lb Spool	33 lb Spool
E71T-1 Speed-Alloy 71-V		
.045	—	MCKS248812-029
E71T-1/1M Speed-Alloy 71A		
.045	—	MCKS285812-629
.052	MCKS285815-622	—
1/16	—	MCKS285819-629

McKAY

Timco offers all filler metal brands, sizes and alloys. The most popular sizes, brands and packages are shown in this guide. Please contact your Timco representative if you can't find what you need.

AWS E71T-1 Ordering Information and Packaging

UltraCore®

Diameter (Inches)	15 lb Plastic Spool 60 lb Master Carton (overpack)	33 lb Plastic Spool	50 lb Fiber Spool
UltraCore® 71A75 Dual			
.045	LINED031882	LINED031669	LINED031844
.052	—	LINED031670	LINED031845
1/16	—	LINED031671	—
E71T-1M/9M UltraCore® 71A85			
.045	—	LINED031663	—
.052	—	LINED031664	LINED031848
1/16	—	LINED031665	LINED031849



Outershield®

Diameter (Inches)	25 lb Plastic Spool	33 lb Spool	50 lb Coil
E71T-1C/1M/9C/9M Outershield® 71M			
.035	LINED026805	—	—
.045	LINED022659	LINED030007	LINED020844
.052	LINED022660	—	LINED020845
1/16	LINED022661	LINED030009	LINED020846
E71T-1C/1M/9C/9M Outershield® 71			
.045	—	LINED029201	—
1/16	—	LINED029206	—

ESAB® Dual Shield

Diameter (Inches)	33 lb Spool	60 lb Coil
Dual Shield 7000-A1		
.045	ESA245012521	—
Dual Shield II 70 Ultra		
.045	ESA245013313	—
1/16	ESA245013339	—
Dual Shield II 71 Ultra		
.045	ESA245013875	—
.052	ESA245013925	—
Dual Shield 70 Ultra Plus		
.045	ESA245015813	—
1/16	—	ESA245015938
Dual Shield II 70T-12H4		
.045	ESA245016290	—

ESAB® Dual Shield

Diameter (Inches)	33 lb Spool
Dual Shield 710X	
.045	ESA245019252
1/16	ESA245019278
Dual Shield 710X-M	
.045	ESA245019807
Dual Shield 7000	
.045	ESA247007099
Dual Shield 7100 Ultra	
.045	ESA248000747
Dual Shield 7100 LC	
.045	ESA248000937



Kobelco

Diameter (inches)	44 lb Spool
E71T Frontierarc 711	
.045	KOB71104544S
.052	KOB71105244S
1/16	KOB71111644S
E71T-1M DW-50	
.045	KOBDW5004544S
.052	KOBDW5005244S
1/16	KOBDW5011644S
E71T-1M DW-500	
.045	KOBDWA5004544S



Diameter (inches)	33 lb Spool
E71T-1C/1M TM-711M	
.035	TRIS248808-K29
.045	TRIS248812-K29
E71T-1M/12MJ TM-770	
.045	TRIS283212-K29
E71T-1C/12CJ TM-771	
.045	TRIS283312-K29
1/16	TRIS283319-K29
E71T-1C/1M Triple 7	
.045	TRIS285812-K29
.052	TRIS285815-K29
1/16	TRIS285819-K29

Tri-Mark®

Diameter (inches)	15 lb Spool
E71T-1C/1M Triple 7	
.045	TRIS285812-K25

ESAB® Dual Shield 7100 Ultra

Diameter (Inches)	33 lb Spool	60 lb Coil
.035	ESA248000622	—
.045	ESA248000044	ESA248000119
.052	ESA248000010 ESA248000754*	ESA248000127
1/16	ESA248000028	ESA248000101

*Plastic Spool

COREX®

Diameter (inches)	33 lb Spool	44 lb Spool
E71T-1C/1M Versatile		
.045	C12S285812-X29	C12S285812-X44



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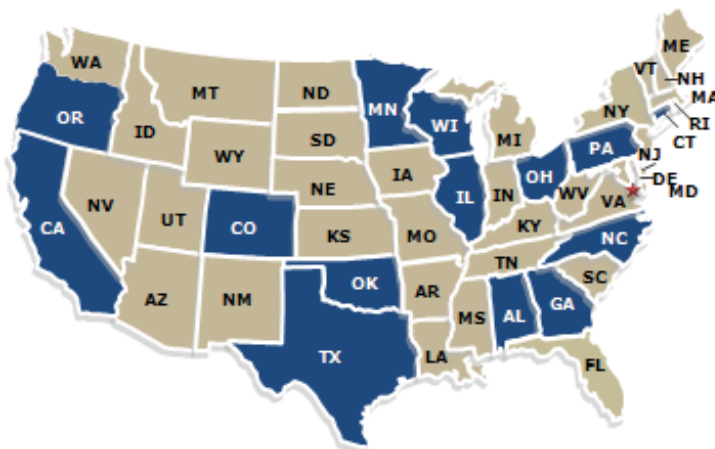
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