

50 years of providing
quality products



PYASA
Soldamatic®
High Speed Productivity MIG Wire

PYASA
Arcomatic®
Submerged Arc Welding Flux Powder



American Welding Society®
Sustaining Company Member



cwb certification
Canadian Welding Bureau



ISO 9001-2015
CERTIFIED COMPANY

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About us



Founded in 1976 in Monterrey, N.L., Mexico, PYASA has been a trusted leader in the welding industry for nearly five decades.

We specialize in the production of MIG welding wire for GMAW (Gas Metal Arc Welding), welding wires and fluxes for SAW (Submerged Arc Welding), as well as wire forms coated with thermoplastic compounds.

As pioneers in welding manufacturing, we proudly developed and patented our own REGIO-PAC drums, a unique design created to achieve one of our core goals: helping our customers maximize productivity through engineering, innovation, and superior product quality.

Our Mision

Our mission is to lead in the manufacturing of MIG welding wire, submerged arc, flux, and wire forms, delivering high-quality products and services that exceed our customers expectations while upholding our commitment to environmental preservation.



Values

✓ Honesty ✓ Service ✓ Continuous improvement

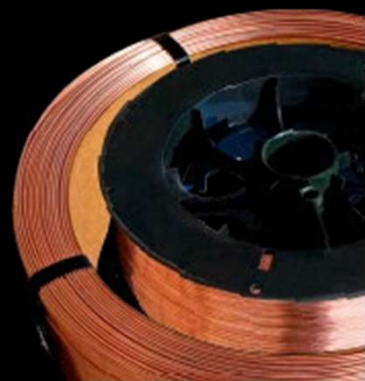
Teamwork: always seeking synergy with our clients and our staff to achieve established objectives.

Leadership: taking initiative to enthusiastically manage, promote, and evaluate our clients' projects.

Innovation: with continuous improvement in mind for both our clients and ourselves, we always stay at the forefront to keep offering products with the highest quality standards.



Welding Products



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Soldamatic® MW 120

Classification and approvals:

- ✓ AWS A5.18 CLASS. ER70S-3/H4
- ✓ EN ISO 14341-A: 2Si1
- ✓ ASME SFA 5.18 CLASS. ER70S-3/H4
- ✓ W48: B-G 49A3 C1 S3



ISO 9001:2015

Specifications

Carbon steel electrode with moderate silicon and manganese content. Commonly used with shielding gas CO₂, Argon, and Argon/CO₂/Helium mixtures.

It can be applied in all welding positions.

It is recommended for applications where a low level of silicate islands on the weld surface is required. It is used for short-circuit, spray, and pulsed metal transfer.



CHEMICAL COMPOSITION

	%C	%Mn	%Si	%P	%S	%Ni	%Cr	%Mo	%V	%Cu
MIN	0.06	0.90	0.45	----	----	----	----	----	----	----
MAX	0.15	1.40	0.75	0.025	0.035	0.15	0.15	0.15	0.03	0.50

MECHANICAL PROPERTIES

Tensile Strength min.	70,000 lbf/in ² 490 MPa
Yield Strength min.	58,000 lbf/in ² 400 MPa
% Elongation in 2 in min.	22%
Charpy V Impact Test -20°F	20 ft-lbf 27J

SIZE AND DIAMETER

Diameter	Spool 2 lb 10 lb	Spool 30 lb	Drum 220 lb	Drum 660 lb 700 lb	Drum 880 lb 1000 lb	Reel 660 lb 1000 lb
0.035 in.	•	•	•	•	•	•
0.045 in.	•	•	•	•	•	•
0.052 in.		•	•	•	•	•
0.062 in.					•	•
1.0 mm	•	•	•	•		•
1.2 mm	•	•	•	•		•
0.070 in.					•	•
0.078 in.					•	•
0.094 in.					•	•

RECOMMENDATIONS

- Keep in a dry and isolated place, avoiding moisture and exposure to sunlight or weather.
- Avoid contact with external lubricants.
- Follow the instructions provided in the product's Safety Data Sheet (MSDS).



Soldamatic® MW 160

Classification and approvals:

✓ AWS A5.18 CLASS. ER70S-6/H4

✓ ASME SFA A5.18 CLASS. ER70S-6/H4

✓ EN ISO 14341-B-G 49 3 C1 S6

✓ W48: B-G 49A3 C1 S6



ISO 9001:2015

Specifications

Its silicon and manganese content provides excellent deoxidizing properties, ensuring welds free of discontinuities in a wide range of applications. Recommended for the automotive, metal-mechanical, and pressure vessel industries.

Its characteristics reduce consumable costs and downtime, extending the service life of contact tips.

Approved as low hydrogen input (H4) in the all-weld metal.



CHEMICAL COMPOSITION

	%C	%Mn	%Si	%P	%S	%Ni	%Cr	%Mo	%V	%Cu
MIN	0.06	1.40	0.80	----	----	----	----	----	----	----
MAX	0.15	1.85	1.15	0.025	0.035	0.15	0.15	0.15	0.003	0.50

MECHANICAL PROPERTIES

Tensile Strength min.	70,000 lbf/in ² 490 MPa
Yield Strength min.	58,000 lbf/in ² 400 MPa
% Elongation in 2 in min.	22%
Charpy V Impact Test -20°F	20 ft-lbf 27J

SIZE AND DIAMETER

Diameter	Spool 2 lb 10 lb	Spool 30 lb	Drum 220 lb	Drum 660 lb 700 lb	Drum 880 lb 1000 lb	Reel 660 lb 1000 lb
0.035 in.	•	•	•	•	•	•
0.045 in.	•	•	•	•	•	•
0.052 in.		•	•	•	•	•
0.062 in.					•	•
1.0 mm	•	•	•	•		•
1.2 mm	•	•	•	•		•
0.070 in.					•	•
0.078 in.					•	•
0.094 in.					•	•

RECOMMENDATIONS

- Keep in a dry and isolated place, avoiding moisture and exposure to sunlight or weather.
- Avoid contact with external lubricants.
- Follow the instructions provided in the product's Safety Data Sheet (MSDS).



Soldamatic® MW 160 - 3

Classification and approvals:

✓ AWS A5.18 CLASS. ER70S-6/H4

✓ ASME SFA A5.18 CLASS. ER70S-6/H4

✓ EN ISO 14341 AG 46 3 C1 4Si1



ISO 9001:2015

Specifications

Highly recommended for high-strength structural steels where tensile, yield, and impact values are critical.

Its high silicon and manganese content provides excellent mechanical properties, ensuring superior performance in destructive testing. Recommended for the automotive, metal-mechanical, and pressure vessel industries.

Its characteristics reduce consumable costs and technical downtime, extending the service life of contact tips.

Approved as low hydrogen input (H4) in the all-weld metal.



CHEMICAL COMPOSITION

	%C	%Mn	%Si	%P	%S	%Ni	%Cr	%Mo	%V	%Cu	%Al	%Ti+Zr
MIN	0.06	1.60	0.80	----	----	----	----	----	----	----	----	----
MAX	0.14	1.90	1.20	0.025	0.025	0.15	0.15	0.15	0.03	0.35	0.02	0.15

MECHANICAL PROPERTIES

Tensile Strength min.	530-680 MPa
Yield Strength min.	460 MPa
% Elongation in 2 in min.	20%
Charpy V Impact Test -20°F	47 J @ -30°C

SIZE AND DIAMETER

Diameter	Spool 2 lb 10 lb	Spool 30 lb	Drum 220 lb	Drum 660 lb 700 lb	Drum 880 lb 1000 lb	Reel 660 lb 1000 lb
0.035 in.	•	•	•	•	•	•
0.045 in.	•	•	•	•	•	•
0.052 in.		•	•	•	•	•
0.062 in.					•	•
1.0 mm	•	•	•	•		•
1.2 mm	•	•	•	•		•
0.070 in.					•	•
0.078 in.					•	•
0.094 in.					•	•

RECOMMENDATIONS

- Keep in a dry and isolated place, avoiding moisture and exposure to sunlight or weather.
- Avoid contact with external lubricants.
- Follow the instructions provided in the product's Safety Data Sheet (MSDS).



Soldamatic® MW 180



Classification and approvals:

✓ AWS A5.28 CLASS. ER80S-D2/H4 ER90S-D2/H4

✓ ASME SFA A5.28 CLASS. ER80S-D2/H4 ER90S-D2/H4

✓ EN ISO 16484-B G 59A 3 C 4M31 /
16834-B G 62A 3 C 4M31

✓ CWB CERTIFIED

Specifications

Contains a high level of deoxidizers (Mn and Si), in addition to molybdenum (Mo), which provides excellent mechanical properties for tensile and yield strength.

Suitable for single- or multi-pass welding on a variety of carbon steels and low- to medium-alloy steels. Commonly used with shielding gases CO₂, Argon/CO₂, and Argon/CO₂/Helium.



CHEMICAL COMPOSITION

	%C	%Mn	%Si	%P	%S	%Ni	%Cr	%Mo	%V	%Cu
MIN	0.07	1.60	0.50	----	----	----	----	0.40	----	----
MAX	0.12	2.10	0.80	0.025	0.025	0.15	----	0.60	----	0.50

MECHANICAL PROPERTIES

Tensile Strength min.	80,000 lbf/in ² 550 MPa
Yield Strength min.	68,000 lbf/in ² 470 MPa
% Elongation in 2 in min.	17%
Charpy V Impact Test -20°F	20 ft-lbf 27J

SIZE AND DIAMETER

Diameter	Spool 2 lb 10 lb	Spool 30 lb	Drum 220 lb	Drum 660 lb 700 lb	Drum 880 lb 1000 lb	Reel 660 lb 1000 lb
0.035 in.	•	•	•	•	•	•
0.045 in.	•	•	•	•	•	•
0.052 in.		•	•	•	•	•
0.062 in.					•	•
1.0 mm	•	•	•	•		•
1.2 mm	•	•	•	•		•
0.070 in.					•	•
0.078 in.					•	•
0.094 in.					•	•

RECOMMENDATIONS

- Keep in a dry and isolated place, avoiding moisture and exposure to sunlight or weather.
- Avoid contact with external lubricants.
- Follow the instructions provided in the product's Safety Data Sheet (MSDS).



Soldamatic® MW 120 - T

Classification and approvals:

✓ AWS A5.18 CLASS. ER70S-3/H4

✓ ASME SFA 5.18 CLASS. ER70S-3/H4

✓ EN ISO 14341-A: 2Si1

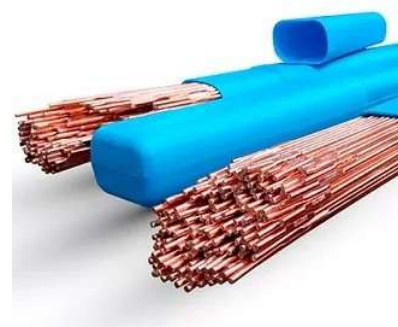


ISO 9001:2015

Specifications

Copper-coated filler rod used in the Gas Tungsten Arc Welding (GTAW or TIG) process, with silicon and manganese content that provides excellent deoxidizing properties, ensuring welds free of discontinuities in a wide range of applications.

The ER70S-3 specification is individually stamped on the tip of each rod for proper identification during welding. Packed in hermetically sealed plastic containers for easier handling.



It has a length of 36 in.

CHEMICAL COMPOSITION

	%C	%Mn	%Si	%P	%S	%Ni	%Cr	%Mo	%V	%Cu
MIN	0.06	0.90	0.45	----	----	----	----	----	----	----
MAX	0.15	1.40	0.75	0.025	0.035	0.15	0.15	0.15	0.03	0.50

MECHANICAL PROPERTIES

Tensile Strength min.	70,000 lbf/in ² 490 MPa
Yield Strength min.	58,000 lbf/in ² 400 MPa
% Elongation in 2 in min.	22%
Charpy V Impact Test -20°F	20 ft-lbf 27J

SIZE AND DIAMETER

Diameter	Rod TIG 10 lb
1/16 in.	•
3/32 in.	•
1/8 in.	•

RECOMMENDATIONS

- Keep in a dry and isolated place, avoiding moisture and exposure to sunlight or weather.
- Avoid contact with external lubricants.
- Follow the instructions provided in the product's Safety Data Sheet (MSDS).



Soldamatic® MW 160 - T

Classification and approvals:

✓ AWS A5.18 CLASS. ER70S-6

✓ ASME SFA A5.18 CLASS. ER70S-6

✓ ISO 14341: EN 440G3Si1

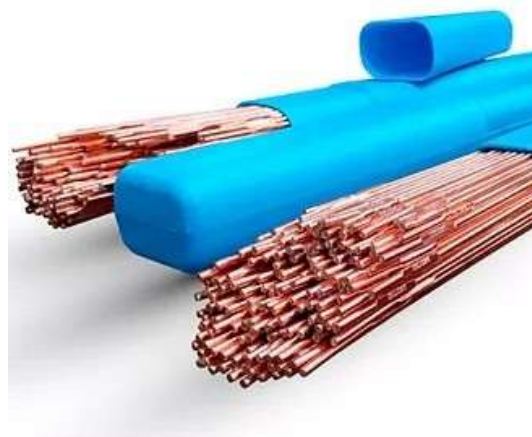


ISO 9001:2015

Specifications

Copper-coated filler rod used in the Gas Tungsten Arc Welding (GTAW or TIG) process, with silicon and manganese content that provides excellent deoxidizing properties, ensuring welds free of discontinuities in a wide range of applications.

The ER70S-6 specification is individually stamped on the tip of each rod for proper identification during welding. Packed in hermetically sealed plastic containers for easier handling.



It has a length of 36 in.

CHEMICAL COMPOSITION

	%C	%Mn	%Si	%P	%S	%Ni	%Cr	%Mo	%V	%Cu
MIN	0.06	1.40	0.80	----	----	----	----	----	----	----
MAX	0.15	1.85	1.15	0.025	0.035	0.15	0.15	0.15	0.03	0.50

MECHANICAL PROPERTIES

Tensile Strength min.	70,000 lbf/in ² 490 MPa
Yield Strength min.	58,000 lbf/in ² 400 MPa
% Elongation in 2 in min.	22%
Charpy V Impact Test -20°F	20 ft-lbf 27J

SIZE AND DIAMETER

Diameter	Rod TIG 10 lb
1/16 in.	•
3/32 in.	•
1/8 in.	•

RECOMMENDATIONS

- Keep in a dry and isolated place, avoiding moisture and exposure to sunlight or weather.
- Avoid contact with external lubricants.
- Follow the instructions provided in the product's Safety Data Sheet (MSDS).



Soldamatic® MW 180 - T



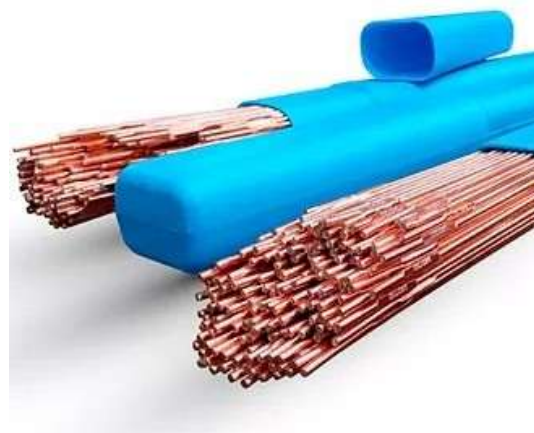
Classification and approvals:

- ✓ AWS A5.28 CLASS. ER80S-D2/ER90S-D2
- ✓ EN ISO 16484-B G 59A 3 C 4M31 / 16834-B G 62A 3 C 4M31
- ✓ ASME SFA A5.28 CLASS. ER80S-D2/ER90S-D2

Specifications

Contains a high level of deoxidizers (Mn and Si), in addition to molybdenum (Mo), which provides excellent mechanical properties for tensile and yield strength.

Suitable for single- or multi-pass welding on a variety of carbon steels and low- to medium-alloy steels.



CHEMICAL COMPOSITION

	%C	%Mn	%Si	%P	%S	%Ni	%Cr	%Mo	%V	%Cu
MIN	0.07	1.60	0.50	----	----	----	----	0.40	----	----
MAX	0.12	2.10	0.80	0.025	0.025	0.15	----	0.60	----	0.50

MECHANICAL PROPERTIES

Tensile Strength min.	80,000 lbf/in ² 550 MPa
Yield Strength min.	68,000 lbf/in ² 470 MPa
% Elongation in 2 in min.	17%
Charpy V Impact Test -20°F	20 ft-lbf 27J

SIZE AND DIAMETER

Diameter	Rod TIG 10 lb
1/16 in.	•
3/32 in.	•
1/8 in.	•

RECOMMENDATIONS

- Keep in a dry and isolated place, avoiding moisture and exposure to sunlight or weather.
- Avoid contact with external lubricants.
- Follow the instructions provided in the product's Safety Data Sheet (MSDS).



Soldamatic® 60

Classification and approvals:

- ✓ AWS A5.17 CLASS. EL 12
- ✓ ASME SFA 5.17 CLASS. EL 12



ISO 9001:2015

Specifications

Carbon steel electrode wire used in the metal-mechanical industry for applications in the Submerged Arc Welding (SAW) process.

General-purpose electrode for low-carbon steels and commercial steel.

It is recommended for use with ARCOMATIC 280 flux for single- or multi-pass welding.



CHEMICAL COMPOSITION

	%C	%Mn	%Si	%P	%S	%Cu
MIN	0.04	0.25	----	----	----	----
MAX	0.14	0.60	0.10	0.030	0.030	0.35

SIZE AND DIAMETER

Diameter	Spool 30 lb	Coil 66 lb	Drum 660 lb	Reel 660 lb
1/16 in.	•	•	•	•
5/64 in.		•	•	•
3/32 in.		•	•	•
1/8 in.		•	•	•
5/32 in.		•	•	•
3/16 in.		•		

RECOMMENDATIONS

- Keep in a dry and isolated place, avoiding moisture and exposure to sunlight or weather.
- Avoid contact with external lubricants.
- Follow the instructions provided in the product's Safety Data Sheet (MSDS).



Soldamatic® 120

Classification and approvals:

- ✓ AWS A5.17 CLASS. EM13K
- ✓ ASME SFA A5.17 CLASS. EM13K



ISO 9001:2015

Specifications

Carbon steel electrode wire used in the metal-mechanical industry for applications in the Submerged Arc Welding (SAW) process.

General-purpose electrode for low-carbon steels, medium manganese, and low silicon content.

It is recommended for use with ARCOMATIC 280 flux for single- or multi-pass welding. For cladding applications, its use with ARCOMATIC 217 flux is recommended.



CHEMICAL COMPOSITION

	%C	%Mn	%Si	%P	%S	%Cu
MIN	0.06	0.90	0.35	----	----	----
MAX	0.16	1.40	0.75	0.030	0.030	0.35

SIZE AND DIAMETER

Diameter	Spool 30 lb	Coil 66 lb	Drum 660 lb	Reel 660 lb
1/16 in.	•	•	•	•
5/64 in.		•	•	•
3/32 in.		•	•	•
1/8 in.		•	•	•
5/32 in.		•	•	•
3/16 in.		•		

RECOMMENDATIONS

- Keep in a dry and isolated place, avoiding moisture and exposure to sunlight or weather.
- Avoid contact with external lubricants.
- Follow the instructions provided in the product's Safety Data Sheet (MSDS).



Soldamatic® 121

Classification and approvals:

- ✓ AWS A5.17 CLASS. EM12K
- ✓ ASME SFA A5.17 CLASS. EM12K



ISO 9001:2015

Specifications

Carbon steel electrode wire used in the metal-mechanical industry for applications in the Submerged Arc Welding (SAW) process.

Its low silicon content makes it recommended for applications requiring higher Charpy impact test values and for preventing crack formation.

General-purpose electrode for low-carbon steels, medium manganese, and low silicon content.



It is recommended for use with **ARCOMATIC 280** flux for single- or multi-pass welding. For cladding applications, its use with **ARCOMATIC 217** flux is recommended.

SIZE AND DIAMETER				
Diameter	Spool 30 lb	Coil 66 lb	Drum 660 lb	Reel 660 lb
1/16 in.	•	•	•	•
5/64 in.		•	•	•
3/32 in.		•	•	•
1/8 in.		•	•	•
5/32 in.		•	•	•
3/16 in.		•		

CHEMICAL COMPOSITION						
	%C	%Mn	%Si	%P	%S	%Cu
MIN	0.05	0.80	0.10	----	----	----
MAX	0.15	1.25	0.35	0.030	0.030	0.35

RECOMMENDATIONS

- Keep in a dry and isolated place, avoiding moisture and exposure to sunlight or weather.
- Avoid contact with external lubricants.
- Follow the instructions provided in the product's Safety Data Sheet (MSDS).



Soldamatic® 180

Classification and approvals:

- ✓ AWS A5.23 CLASS. EA3K
- ✓ ASME SFA A5.23 CLASS. EA3K



ISO 9001:2015

Specifications

Carbon steel and molybdenum electrode wire used in the metal-mechanical industry for applications in the Submerged Arc Welding (SAW) process.

This electrode is used for structural and high-strength steels.

It is recommended for use with **ARCOMATIC 280** flux for single- or multi-pass welding.



CHEMICAL COMPOSITION

	%C	%Mn	%Si	%P	%S	%Mo	%Cu
MIN	0.05	1.60	0.50	----	----	0.40	----
MAX	0.15	2.10	0.80	0.025	0.025	0.60	0.35

SIZE AND DIAMETER

Diameter	Spool 30 lb	Coil 66 lb	Drum 660 lb	Reel 660 lb
1/16 in.	•	•	•	•
5/64 in.		•	•	•
3/32 in.		•	•	•
1/8 in.		•	•	•
5/32 in.		•	•	•
3/16 in		•		

RECOMMENDATIONS

- Keep in a dry and isolated place, avoiding moisture and exposure to sunlight or weather.
- Avoid contact with external lubricants.
- Follow the instructions provided in the product's Safety Data Sheet (MSDS).



Arcomatic® 261

Classification and approvals:

- ✓ AWS A5.17 CLASS. F7A2-EM12K
- ✓ ASME SFA 5.17 CLASS. F7A2-EM13K



Specifications

Agglomerated Fluxes for SAW Process.

The fluxes for Submerged Arc Welding are granulated to a controlled particle size.

This agglomerated flux is **Neutral**, with a basicity of 0.85, and is recommended for welding with AC and DC+, DC- power sources, using single or multiple wires.

It is considered a general-purpose flux for welding carbon steel plates in multiple passes. It is suitable for thick sections where the bead profile is important.

Packaging: Paper bags with inner polyethylene liner, net weight 55 lb.



TECHNICAL SPECIFICATIONS

AWS A5.17 ASME SFA 5.17	F7A2 - EM13K	F7A8 - EM12K
Tensile Strength (MPa)	475 Mpa - 68,800 lbf/in ²	450 Mpa - 65200 lbf/in ²
Yield Strength (MPa)	570 Mpa - 82,600 lbf /in ²	560 Mpa - 81200 lbf/in ²
Elongation (%)	26%	24%
V- Charpy	47 Joules - 34.66 lbf /in ²	60 Joules - 44.25 lbf /in ²
Typical Hardness (HB)	-20 °F	-20 °F

PARTICLE SIZE DISTRIBUTION (PSD)

Mesh 12/60

FURNACE HEAT TREATMENT

To remove moisture from the exposed flux, place it in a furnace at 300°C for two hours



Arcomatic® 280

Classification and approvals:

- ✓ AWS A5.23 CLASS. F7A2-EM12K
- ✓ ASME SFA 5.23 CLASS. F7A2-EM12K



Specifications

Agglomerated Fluxes for SAW Process.

The fluxes for Submerged Arc Welding are granulated to a controlled particle size.

This agglomerated flux is neutral, with a basicity of 0.85, and is recommended for welding with AC and DC+, DC- power sources, using single or multiple wires.

It is considered a general-purpose flux for welding carbon steel plates up to 1 in. thick, where bead profile is important. Suitable for travel speeds not exceeding 60 in./min.

Packaging: Paper bags with inner polyethylene liner, net weight 55 lb.



TECHNICAL SPECIFICATIONS

AWS A5.17 ASME SFA 5.17	F7A0 - EM12K F7A0 - EM13K	F7A2 - EM12K F7A2 - EM13K
Tensile Strength (MPa)	58,000 lbf/in2	58,000 lbf/in2
Yield Strength (MPa)	70,000 lbf/in2	70,000 lbf/in2
Elongation (%)	22%	22%
Impact Toughness (J) at -20°C	27 Joules	27 Joules
Typical Hardness (HB)	0 °F	-20 °F

PARTICLE SIZE DISTRIBUTION (PSD)

Mesh 12/60

FURNACE HEAT TREATMENT

To remove moisture from the exposed flux, place it in a furnace at 300°C for two hours



Specifications

Agglomerated Fluxes for SAW Process.

This agglomerated flux with a basicity of 2.7 is recommended for welding with AC and DC+, DC- power sources, using a single wire.

It is recommended for welding stainless steels, including austenitic grades of the 300 series, duplex alloys, and dissimilar steel joints. It is suitable for hardfacing applications, but does not compensate for Cr, Cb, or Mo. It has the ability to transfer Ni and Mo from the wire to the weld deposit, with only a 0.5% loss of Cr.

It provides excellent slag detachability, producing a uniform and smooth bead.

Packaging: Paper bags with inner polyethylene liner, net weight 55 lb.



CHEMICAL COMPOSITION IN COMBINATION WITH SOME ELECTRODES

Electrode	%C	%Mn	%Si	%Cr	%Ni	%Mo	%Nb	Limit Yield	Last Tensile	% Elongation	CHARPY "V" Test
ER308L	0.02	1.40	0.50	19.3	10.0	-----	-----	47 KSI	76 KSI	41	40 lb-ft @ - 20°F
ER309L	0.02	1.20	0.50	22.5	12.0	-----	-----	45 KSI	75 KSI	41	-----
ER316L	0.02	1.30	0.50	18.4	12.8	2.13	-----	53 KSI	77 KSI	41	32 lb-ft @ - 20°F
ER347	0.04	1.00	0.45	18.8	9.3	-----	0.50	82 KSI	117 KSI	32	64 lb-ft @ - 20°F

PARTICLE SIZE DISTRIBUTION (PSD)

Mesh 12/60

FURNACE HEAT TREATMENT

To remove moisture from the exposed flux, place it in a furnace at 300°C for two hours

Soldamatic® AL4043

Classification and approvals:

- ✓ AWS A5.10 CLASS. ER4043, R4043
- ✓ ASME SFA A5.10 ER4043



ISO 9001:2015

Specifications

It is an aluminum filler material with 5% silicon, used for welding in most welding positions. Recommended for welding alloys 3003, 3004, 5052, 6061, 6063, and aluminum castings, commonly used in bicycles, trucks, trailers, and automotive components. The silicon content provides greater fluidity, producing a bright weld bead that is less sensitive to cracking.



MECHANICAL PROPERTIES

Tensile Strength min.	33,000 PSI
Yield Strength min.	27,500 PSI
% Elongation in 2 in min.	5 – 12 %

CHEMICAL COMPOSITION

	%Al	%Si	%Fe	%Cu	%Mn	%Mg	%Cr	%Zn	%Ti	%Be	% other elements
MIN	----	4.5	----	----	----	----	----	----	----	----	----
MAX	Resto	6.0	0.80	0.30	0.05	0.05	----	0.10	0.20	0.0003	0.05

GMAW SIZE AND DIAMETER

Diameter	Spool 5 Lb (2.2 Kg)	Spool 16 Lb (7.2 Kg)	Drum 300 Lb (136 Kg)
0.035 in / 0.9 mm	•	•	•
3/64 in / 1.2 mm	•	•	•
0.062 in / 1.6 mm	•	•	•

GTAW SIZE AND DIAMETER

Diameter	Rods TIG 10 Lb
1/16 in	•
3/32 in	•
1/8 in	•



Soldamatic® AL5356

Classification and approvals:

- ✓ AWS A5.10 CLASS. ER5356, R5356
- ✓ ASME SFA 5.10 CLASS. ER5356



ISO 9001:2015

Specifications

It is an aluminum filler material with 5% magnesium, used for welding in all positions.

Recommended for welding alloys 5050, 5052, 5083, 5356, 5454, and 5456, commonly used in bicycles, trucks, pressure vessels, ships, and automotive components.

Magnesium provides higher mechanical strength and improves feeding characteristics.



MECHANICAL PROPERTIES

Tensile Strength min.	45,000 PSI
Yield Strength min.	30,000 PSI
% Elongation in 2 in min.	10 – 18 %

CHEMICAL COMPOSITION

	%Al	%Si	%Fe	%Cu	%Mn	%Mg	%Cr	%Zn	%Ti	%Be	% other elements
MIN	----	----	----	----	0.05	4.5	0.05	----	0.06	----	-----
MAX	Resto	0.25	0.40	0.10	0.20	5.5	0.20	0.10	0.20	0.0003	0.05

GMAW SIZE AND DIAMETER

Diameter	Spool 5 Lb (2.2 Kg)	Spool 16 Lb (7.2 Kg)	Drum 300 Lb (136 Kg)
0.035 in / 0.9 mm	•	•	•
3/64 in / 1.2 mm	•	•	•
0.062 in / 1.6 mm	•	•	•

GTAW SIZE AND DIAMETER

Diameter	Rods TIG 10 Lb
1/16 in	•
3/32 in	•
1/8 in	•



Soldamatic® AL4047

Classification and approvals:

✓ AWS A5.10 CLASS. ER4047, R4047

✓ AWS A5.8 CLASS. BAlSi-4

✓ ASME SFA 5.10 CLASS. ER4047



ISO 9001:2015

Specifications

Aluminum welding wire for all positions with 12% silicon, used for welding heat-treatable alloys such as 6XXX base metals and cast alloys.

It is found in many common welding applications, such as bicycles, trucks, trailers, spare parts, and automotive equipment. The higher silicon content in this alloy improves wetting action and produces a weld bead that is less bright and less prone to cracking, while also providing a narrow melting range that reduces shrinkage during cooling.



MECHANICAL PROPERTIES

Tensile Strength min.	34,000 PSI
Yield Strength min.	28,000 PSI
% Elongation in 2 in min.	4%

CHEMICAL COMPOSITION

	%Al	%Si	%Fe	%Cu	%Mn	%Mg	%Zn	%Be	% other elements
MIN	----	11.00	----	----	----	----	----	----	----
MAX	Resto	13.00	0.80	0.30	0.15	0.10	0.20	0.0003	0.05

GMAW SIZE AND DIAMETER

Diameter	Spool 5 Lb (2.2 Kg)	Spool 16 Lb (7.2 Kg)	Drum 300 Lb (136 Kg)
0.035 in / 0.9 mm	•	•	•
3/64 in / 1.2 mm	•	•	•
0.062 in / 1.6 mm	•	•	•

GTAW SIZE AND DIAMETER

Diameter	Rods TIG 10 Lb
1/16 in	•
3/32 in	•
1/8 in	•



Soldamatic® AL5183



Conforme a:

- ✓ AWS A5.10: ER5183
- ✓ ASME SFA 5.10 CLASS. ER5183

Specifications

Aluminum alloy wire designed to meet the tensile strength requirements of high-magnesium-content alloys. Commonly used for welding applications that require high fracture and impact resistance, as well as resistance to exposure to corrosive elements.

Magnesium provides greater mechanical strength and improves feeding conditions.



MECHANICAL PROPERTIES

Tensile Strength min.	45,000 PSI
Yield Strength min.	30,000 PSI
% Elongation in 2 in min.	10 - 18%

CHEMICAL COMPOSITION

	%Al	%Si	%Fe	%Cu	%Mn	%Mg	%Cr	%Zn	%Ti	%Be	% other elements
MIN	----	----	----	----	0.50	4.3	0.05	----	----	----	----
MAX	Resto	0.40	0.40	0.10	1.00	5.2	0.25	0.25	0.15	0.0003	0.05

GMAW SIZE AND DIAMETER

Diameter	Spool 5 Lb (2.2 Kg)	Spool 16 Lb (7.2 Kg)	Drum 300 Lb (136 Kg)
0.035 in / 0.9 mm	•	•	•
3/64 in / 1.2 mm	•	•	•
0.062 in / 1.6 mm	•	•	•

GTAW SIZE AND DIAMETER

Diameter	Rods TIG 10 Lb
1/16 in	•
3/32 in	•
1/8 in	•



Soldamatic® AL4043 - T

Classification and approvals:

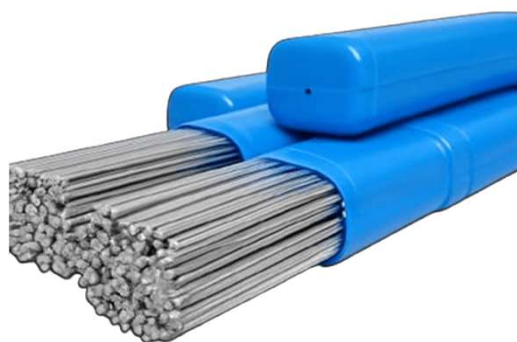
- ✓ AWS A5.10 CLASS. ER4043, R4043
- ✓ ASME SFA A5.10 ER4043



ISO 9001:2015

Specifications

It is an aluminum filler material with 5% silicon, used for welding in most welding positions. Recommended for welding alloys 3003, 3004, 5052, 6061, 6063, and aluminum castings, commonly used in bicycles, trucks, trailers, and automotive components. The silicon content provides greater fluidity, producing a bright weld bead that is less sensitive to cracking.



MECHANICAL PROPERTIES

Tensile Strength min.	33,000 PSI
Yield Strength min.	27,500 PSI
% Elongation in 2 in min.	5 – 12 %

GTAW SIZE AND DIAMETER

Diameter	Rods TIG 10 Lb
1/16 in	•
3/32 in	•
1/8 in	•

CHEMICAL COMPOSITION

	%Al	%Si	%Fe	%Cu	%Mn	%Mg	%Cr	%Zn	%Ti	%Be	% other elements
MIN	----	4.5	----	----	----	----	----	----	----	----	----
MAX	Resto	6.0	0.80	0.30	0.05	0.05	----	0.10	0.20	0.0003	0.05



Soldamatic® AL5356 - T

Classification and approvals:

- ✓ AWS A5.10 CLASS. ER5356, R5356
- ✓ ASME SFA 5.10 CLASS. ER5356



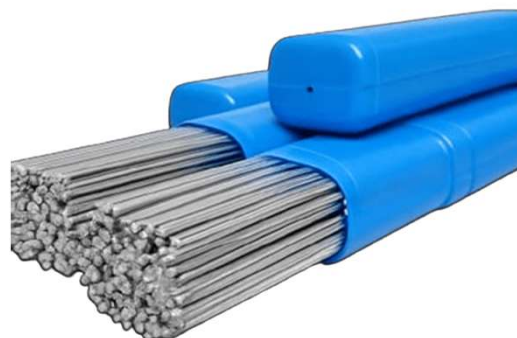
ISO 9001:2015

Specifications

It is an aluminum filler material with 5% magnesium, used for welding in all positions.

Recommended for welding alloys 5050, 5052, 5083, 5356, 5454, and 5456, commonly used in bicycles, trucks, pressure vessels, ships, and automotive components.

Magnesium provides higher mechanical strength and improves feeding characteristics.



MECHANICAL PROPERTIES

Tensile Strength min.	45,000 PSI
Yield Strength min.	30,000 PSI
% Elongation in 2 in min.	10 – 18 %

GTAW SIZE AND DIAMETER

Diameter	Rods TIG 10 Lb
1/16 in	•
3/32 in	•
1/8 in	•

CHEMICAL COMPOSITION

	%Al	%Si	%Fe	%Cu	%Mn	%Mg	%Cr	%Zn	%Ti	%Be	% other elements
MIN	----	----	----	----	0.05	4.5	0.05	----	0.06	----	-----
MAX	Resto	0.25	0.40	0.10	0.20	5.5	0.20	0.10	0.20	0.0003	0.05



Soldamatic® AL4047 - T

Classification and approvals:

✓ AWS A5.10 CLASS. ER4047, R4047

✓ AWS A5.8 CLASS. BAlSi-4

✓ ASME SFA 5.10 CLASS. ER4047

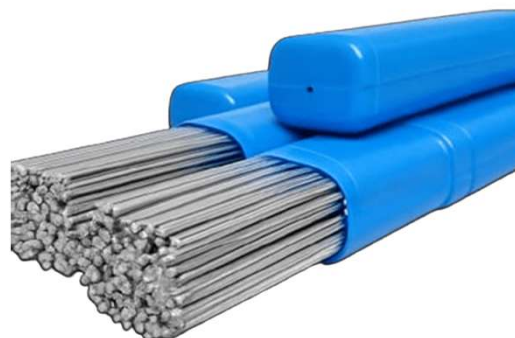


ISO 9001:2015

Specifications

Aluminum welding wire for all positions with 12% silicon, used for welding heat-treatable alloys such as 6XXX base metals and cast alloys.

It is found in many common welding applications, such as bicycles, trucks, trailers, spare parts, and automotive equipment. The higher silicon content in this alloy improves wetting action and produces a weld bead that is less bright and less prone to cracking, while also providing a narrow melting range that reduces shrinkage during cooling.



MECHANICAL PROPERTIES

Tensile Strength min.	34,000 PSI
Yield Strength min.	28,000 PSI
% Elongation in 2 in min.	4%

GTAW SIZE AND DIAMETER

Diameter	Rods TIG 10 Lb
1/16 in	•
3/32 in	•
1/8 in	•

CHEMICAL COMPOSITION

	%Al	%Si	%Fe	%Cu	%Mn	%Mg	%Zn	%Be	% other elements
MIN	----	11.00	----	----	----	----	----	----	----
MAX	Resto	13.00	0.80	0.30	0.15	0.10	0.20	0.0003	0.05



Soldamatic® AL5183 - T



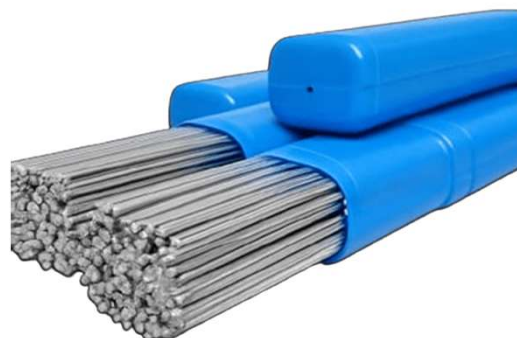
Conforme a:

- ✓ AWS A5.10: ER5183
- ✓ ASME SFA 5.10 CLASS. ER5183

Specifications

Aluminum alloy wire designed to meet the tensile strength requirements of high-magnesium-content alloys. Commonly used for welding applications that require high fracture and impact resistance, as well as resistance to exposure to corrosive elements.

Magnesium provides greater mechanical strength and improves feeding conditions.



MECHANICAL PROPERTIES

Tensile Strength min.	45,000 PSI
Yield Strength min.	30,000 PSI
% Elongation in 2 in min.	10 - 18%

GTAW SIZE AND DIAMETER

Diameter	Rods TIG 10 Lb
1/16 in	•
3/32 in	•
1/8 in	•

CHEMICAL COMPOSITION

	%Al	%Si	%Fe	%Cu	%Mn	%Mg	%Cr	%Zn	%Ti	%Be	% other elements
MIN	----	----	----	----	0.50	4.3	0.05	----	----	----	----
MAX	Resto	0.40	0.40	0.10	1.00	5.2	0.25	0.25	0.15	0.0003	0.05



Soldamatic® SiB

Classification and approvals:

- ✓ AWS A5.7 ER CuSi-A
- ✓ ISO 14640 CuSi₃Mn



ISO 9001:2015

Specifications

Solid continuous wire welding (MIG wire), known as silicon bronze, for GMAW, braze welding, or brazing welding processes.

Used with argon gas, it is recommended for welding thin sheets of carbon steel with or without zinc coating, galvanized, or galvanized steels.

It is widely used in the automotive industry for welding sheet metal where low heat input and low penetration are required. This welding process prevents the detachment of metallic coatings (galvanized or galvanized) after welding, avoiding localized corrosion.

It also prevents deformation of welded parts during welding. Additionally, it is recommended for cladding bronze, steel, copper, gray cast iron, and ductile iron components.



CHEMICAL COMPOSITION

	%Cu	%Zn	%Sn	%Mn	%Fe	%Si	%Al	%Pb	Otros
MIN	---	---	---	---	---	2.8	---	---	---
MAX	Resto	1.0	1.0	1.5	0.50	4.0	0.01	0.02	0.50

SIZE AND DIAMETER

Diámetro	Spool 30 lb	Drum 220 lb	Drum 660 lb
0.030 in	•	•	•
0.035 in	•	•	•
0.039 in / 1 mm	•	•	•
0.045 in	•	•	•
0.047 in / 1.2 mm	•	•	•
0.062 in / 1/16 in	•	•	•

GTAW SIZE AND DIAMETER

Diameter	Rods TIG 10 lb
1/16 in	•
3/32 in	•
1/8 in	•



Premium Gold S-6



Classification and approvals :

- ✓ AWS A5.18 CLASS. ER70S-6/H4
- ✓ EN ISO 14341-B-G 49 3 C1 S6
- ✓ ASME SFA A5.18 CLASS. ER70S-6/H4
- ✓ W48: B-G 49A3 C1 S6

Specifications

Its silicon and manganese content provides excellent deoxidizing properties, ensuring a weld free of discontinuities in a wide variety of applications. Recommended for the automotive, metalworking, and pressure vessel industries.

Its characteristics reduce consumable costs and downtime, extending the service life of the contact tips.

Approved as low hydrogen (H4) in the all-weld metal.



CHEMICAL COMPOSITION

	%C	%Mn	%Si	%P	%S	%Ni	%Cr	%Mo	%V	%Cu
MIN	0.06	1.40	0.80	----	----	----	----	----	----	----
MAX	0.15	1.85	1.15	0.025	0.035	0.15	0.15	0.15	0.03	0.50

MECHANICAL PROPERTIES

Tensile Strength min.	70,000 lbf/in ² 490 MPa
Yield Strength min	58,000 lbf/in ² 400 MPa
% Elongation in 2 in min.	22%
Impact Charpy "V" a -20°F	20 ft-lbf 27J

SIZE AND DIAMETER

Diameter	Spool 30 lb	Drum 550 lb	Drum 800 lb 990 lb	Spool 660 lb 1000 lb
0.035 in.	•	•	•	•
0.045 in.	•	•	•	•
0.052 in.	•	•	•	•
0.062 in.			•	•

RECOMMENDATIONS

- Store in a cool, dry place, away from moisture and exposure to sunlight or the elements.
- Avoid contact with external lubricants.
- Follow the instructions in the product safety data sheet (MSDS).



American Welding Society®
Sustaining Company Member



Premium Gold 110 SG



Classification and approvals :

- ✓ UNI EN ISO 16834-A: 2012 - G 69 4M21 Mn3Ni1CrMo
- ✓ SFA - 5.28/5.28M : 2005 AWS ER 110S-G

Specifications

Solid, low-alloy Ni-Mo-Cr wire, suitable for welding high-strength steels and structural steels in all positions.

Good toughness even at low temperatures, down to -40 °C. It is used for welding earth-moving machinery, crane booms, etc.



CHEMICAL COMPOSITION

	%C	%Mn	%Si	%P	%S	%Ni	%Cr	%Mo	%V	%Cu
Nominal	0.08	1.60	0.50	0.020	0.020	1.40	0.30	0.25	0.07	0.25

MECHANICAL PROPERTIES

Tensile Strength min.	770-940 Mpa (111,000 - 136,000 lbf/in ²)
Yield Strength min	690 Mpa (100,000 lbf/in ²)
% Elongation in 2 in min.	17%
Impact Charpy "V" a -20°F	47 J

SIZE AND DIAMETER

Diameter	Spool 30 lb
1.2 mm - 0.045 in	•

RECOMMENDATIONS

- Store in a cool, dry place, away from moisture and exposure to sunlight or the elements.
- Avoid contact with external lubricants.
- Follow the instructions in the product safety data sheet (MSDS).



Premium Gold 120 SG



Classification and approvals :

- ✓ UNI EN ISO 16834-A: 2012 - G 89 4M21 Mn4Ni2CrMo
- ✓ SFA - 5.28/5.28M : 2005 AWS ER 120S-G

Specifications

Solid, low-alloy Ni-Mo-Cr wire, suitable for welding high-strength steels and structural steels in all positions.

Good toughness even at low temperatures, down to -40 °C. It is used for welding earth-moving machinery, crane booms, etc.



CHEMICAL COMPOSITION

	%C	%Mn	%Si	%P	%S	%Ni	%Cr	%Mo	%V	%Cu
Nominal	0.10	1.80	0.70	0.020	0.020	2.10	0.30	0.50	0.03	0.30

MECHANICAL PROPERTIES

Tensile Strength min.	940-1180 Mpa (136,000 - 171,000 lbf/in ²)
Yield Strength min	890 Mpa (129,000 lbf/in ²)
% Elongation in 2 in min.	15%
Impact Charpy "V" a -20°F	47 J

SIZE AND DIAMETER

Diameter	Spool 30 lb
1.2 mm	•

RECOMMENDATIONS

- Store in a cool, dry place, away from moisture and exposure to sunlight or the elements.
- Avoid contact with external lubricants.
- Follow the instructions in the product safety data sheet (MSDS).



Wire details



WIRE SIZE	MASS gr/m
0.035 in (0.889 mm)	4.87
0.0354 in (0.9 mm)	4.99
0.0392 in (1.0 mm)	6.16
0.045 in (1.143 mm)	8.05
0.047 in (1.2 mm)	8.87
0.052 in (1.3208 mm)	10.75
0.0625 in (1.6 mm)	15.78
0.062 in (1.5748 mm)	15.29
5/64 in (1.9844 mm)	24.27
0.080 in (2.032 mm)	25.45
3/32 in (2.38125 mm)	34.95
1/8 in (3.175 mm)	62.15
5/32 in (3.96875 mm)	97.11
3/16 in (4.7625 mm)	139.83

WIRE DENSITY= $\rho = 7.6897 \times 10^{-3} \text{ gr/mm}^3$

WIRE DENSITY= $\rho = 126.012 \text{ gr/in}^3$



Welding consumables



DRUM
66 lb



DRUM
220 lb



DRUM
660 lb



DRUM
700 lb



DRUM
880 Lb



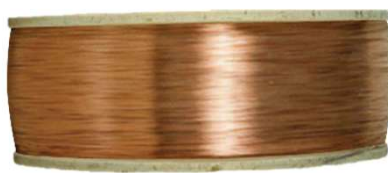
DRUM
1000 lb



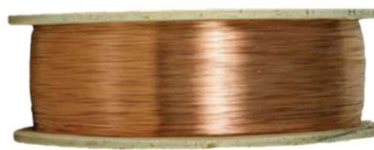
COIL
66 lb



SPOOL
30 lb



REEL
1000 lb



REEL
660 lb



BAG
55 lb



DRUM SAW
660 lb



ROD TIG
10 lb



ROD TIG
10 lb

Contact us



www.pyasa.mx



PYASA Plásticos y Alambres S.A. de C.V.

T. +528181580100 Email: info@pyasa.mx
Humberto Lobo 8026, Parque Industrial Cd. Mitras, 66000, García, N.L.