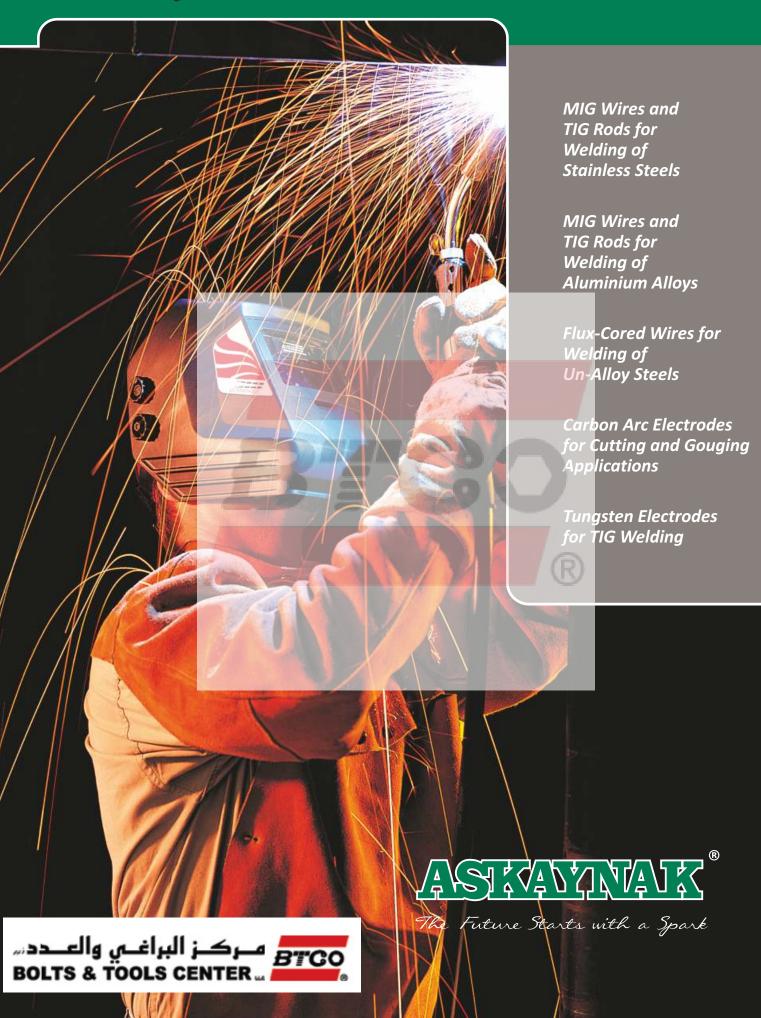
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index

MIG Wires and TIG Rods for Welding of Stainless Steels and Aluminium Alloys Flux-Cored Wires for Welding of Un-Alloy Steels **Carbon Arc Electrodes for Cutting and Gouging Applications Tungsten Electrodes for TIG Welding Process**

BRIO Wives for Wolding of Obsishers Obsisher	AMO	Dana
MIG Wires for Welding of Stainless Steels AS MIG 307Si AS MIG 308LSi AS MIG 309LSi AS MIG 316LSi	AWS A5.9 : ER307Si AWS A5.9 : ER308LSi AWS A5.9 : ER309LSi AWS A5.9 : ER316LSi	Page 3 4 5 6
TIG Rods for Welding of Stainless Steels	AWS	Page
AS TIG 308L AS TIG 309L AS TIG 316L	AWS A5.9 : ER308L AWS A5.9 : ER309L AWS A5.9 : ER316L	7 8 9
MIG Wires and TIG Rods for Welding of Aluminium Alloys	AWS	Page
AS MIG AISi5 / AS TIG AISi5 AS MIG AISi12 / AS TIG AISi12 AS MIG AIMg5 / AS TIG AIMg5	AWS A5.10 : ER4043 AWS A5.10 : ER4047 AWS A5.10 : ER5356	10 11 12
Flux-Cored Wires for Welding of Un-Alloy Steels	AWS	Page
AS FC-71 Super	AWS A5.20 : E71T-1H8	13 - 14
Carbon Arc Electrodes for Cutting and Gouging Applications	AWS (R)	Page
AS KARBON		15
Tungsten Electrodes for TIG Welding Process	AWS	Page
AS Pure Tungsten TIG Electrodes (GREEN) AS 2% Thoriated Tungsten TIG Electrodes (RED)	AWS A5.12 : EWP AWS A5.12 : EWTh-2	16 16



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AS MIG 307Si

MIG Wire for Welding of Austenitic Stainless Steels

Classification

AWS A5.9 : \sim ER307 ISO 14343-A : \sim G 18 8 Mn

General Description

Solid wire with 7% Mn for welding steels with difficult weldability such as armour plates and austenitic high Mn-steels. Ofen used as a buffer layer in hardfacing applications.

Chemical Composition (w%), Typical, Wire

С	Si	Mn	Cr	Ni	P+S
0.08	0.80	7	19	9	< 0.035

Mechanical Properties, Typical, All Weld Metal

Impact ISO-V : $80 \text{ J} (+20^{\circ}\text{C})$

Shielding Gases (acc. ISO 14175 and EN 439)

MIG: M13 - Ar + $\frac{1.5 - 30_2}{1.5 - 30_2}$

Materials to be Welded

Various steel grades such as; armour plates, hardenable steels including steels difficult to weld, non-magnetic steels, work hardening austenitic manganese steels and dissimilar joints (CMn-steels to stainless steels).

Packaging and Available Sizes

Diameter	0.8	1.0	1.2	1.6	2.0	2.4	3.2	Spool Weight
MIG Wire	-	-	Χ	-	-	-	-	12.5 kg

AS MIG 308LSi





MIG Wire for Welding of Austenitic Stainless Steels

Classification

AWS A5.9 : ER308LSi ISO 14343-A: G 19 9 LSi

General Description

Solid wire with extra low carbon for welding austenitic CrNi-steels.

With increased silicon for improved wettability.

Chemical Composition (w%), Typical, Wire

C Si P+S < 0.03 0.85 1.70 20 10 0.15 < 0.035

Mechanical Properties, Typical, All Weld Metal

Yield Strength : 390 N/mm² Tensile Strength : 590 N/mm² Elongation (L=5d): 40 %

Impact ISO-V : 120 J (+20°C) ABS (ER308LSi)

GOST, SEPRO

Shielding Gases (acc. ISO 14175 and EN 439)

MIG: M13 - Ar + % 1.5 - $\frac{30}{2}$ $M12 - Ar + \% 1 - 5 CO_{2}$

Materials to be Welded

	EN 10088-1/-2	EN 10213-4	Mat. Nr.
Extra Low Carbon (C < %0.03)	X2 CrNi 19 11 X2 CrNiN 18 10		1.4306 1.4311
Medium Carbon $(C > \%0.03)$	X4 CrNi 18 10	G-X5 CrNi 19 10	1.4301 1.4308
Ti/Nb Stabilized	X6 CrNiTi 18 10 X6 CrNiNb 18 10	G-X5 CrNiNb 19 10	1.4541 1.4550 1.4552

EN 40000 4 / 9

Packaging and Available Sizes

Diameter	0.8	1.0	1.2	1.6	2.0	2.4	3.2	Spool Weight
MIG Wire	Χ	Х	Х	-	-	-	-	12.5 kg

EN 40040 4





AS MIG 309LSi

MIG Wire for Welding of Austenitic Stainless Steels

Classification

AWS A5.9 : ER309LSi ISO 14343-A : G 23 12 LSi

General Description

Solid wire for welding stainless steel to carbon steel.

With increased silicon for improved wettability.

Chemical Composition (w%), Typical, Wire

С	Si	Mn	Cr	Ni	Mo	P+S
< 0.03	0.85	1.70	24	13	0.15	< 0.035

Mechanical Properties, Typical, All Weld Metal

Approvais

GOST

Yield Strength : 420 N/mm²
Tensile Strength : 600 N/mm²
Elongation (L=5d) : 35 %

Impact ISO-V : 120 J (+20°C)

Shielding Gases (acc. ISO 14175 and EN 439)

MIG: M13 - Ar + % 1.5 - 3 0₂ M12 - Ar + % 1 - 5 CO₂

Materials to be Welded

	EN 10000-1/-2	IVIAL. IVI.
Corrosion resistant	X2 CrNiN 18 10	1.4311
cladsteels	X2 CrNi 19 11	1.4306
	X4 CrNi 18 10	1.4301

EN 40000 4 / 9

Dissimilar metals (mild and low alloyed steel to stainless steel)

Build-up welding on mild and low alloyed steel

Packaging and Available Sizes

Diameter	0.8	1.0	1.2	1.6	2.0	2.4	3.2	Spool Weight
MIG Wire	Χ	Х	Χ	-	-	-	-	12.5 kg

AS MIG 316LSi





MIG Wire for Welding of Austenitic Stainless Steels

Classification

AWS A5.9 : ER316LSi ISO 14343-A: G 19 12 3 LSi

General Description

Solid wire with extra low carbon for welding austenitic CrNiMo-steels.

With increased silicon for improved wettability.

Chemical Composition (w%), Typical, Wire

С	Si	Mn	Cr	Ni	Mo	P+S	
< 0.03	0.85	1.70	18.5	12.5	2.75	< 0.035	

Mechanical Properties, Typical, All Weld Metal

Yield Strength : 410 N/mm² Tensile Strength : 640 N/mm² Elongation (L=5d): 35 %

Impact ISO-V : **1**50 J (+20°C) ABS (ER316LSi)

GOST, SEPRO

Shielding Gases (acc. ISO 14175 and EN 439)

MIG: M13 - Ar + % 1.5 - $\frac{30}{2}$ $M12 - Ar + \% 1 - 5 CO_2$

Materials to be Welded

	EN 10088-1/-2	EN 10213-4	Mat. Nr.
Extra Low Carbon	X2 CrNiMo 17 12 2		1.4404
(C < %0.03)	X2 CrNiMo 18 14 3		1.4435
(5 / / / / / / / / / / / / / / / / / / /	X2 CrNiMoN 17 11 2		1.4406
	X2 CrNiMoN 17 13 3		1.4429
Medium Carbon	X4 CrNiMo 17 12 2		1.4401
(C > %0.03)	X4 CrNiMo 17 13 3	0 VE 0 NIM 40 44	1.4436
		G-X5 CrNiMo 19 11	1.4408
Ti/Nb Stabilized	X6 CrNiMoTi 17 12 2		1.4571
	X6 CrNiMoNb 17 12 2		1.4580
	X6 CrNiNb 18 10		1.4550
		G-X5 CrNiNb 19 10	1.4552

Packaging and Available Sizes

Diameter	0.8	1.0	1.2	1.6	2.0	2.4	3.2	Spool Weight
MIG Wire	Χ	Χ	Χ	-	-	-	-	12.5 kg

6





AS TIG 308L

TIG Rod for Welding of Austenitic Stainless Steels

Classification

AWS A5.9 : ER308L ISO 14343-A : W 19 9 L

General Description

Solid rod with extra low carbon for welding austenitic CrNi-steels.

High resistance to intergranular corrosion and oxidazing environments.

Chemical Composition (w%), Typical, Wire

С	Si	Mn	Cr	Ni	Mo	P+S	
< 0.03	0.45	1.70	20	10	0.15	< 0.035	

Mechanical Properties, Typical, All Weld Metal

Approvals

ABS (ER308L)

GOST, SEPRO

Yield Strength : 380 N/mm²
Tensile Strength : 570 N/mm²
Elongation (L=5d) : 40 %

Impact ISO-V : 100 J (+20°C)

S0-V : 100 J (+20°C)

Shielding Gases (acc. ISO 14175 and EN 439)

TIG: I1 - Ar (%100)

Materials to be Welded

	EN 10088-1/-2	EN 10213-4	Mat. Nr
Extra Low Carbon (C < %0.03)	X2 CrNi 19 11 X2 CrNiN 18 10		1.4306 1.4311
Medium Carbon $(C > \%0.03)$	X4 CrNi 18 10	G-X5 CrNi 19 10	1.4301 1.4308
Ti/Nb Stabilized	X6 CrNiTi 18 10 X6 CrNiNb 18 10	G-X5 CrNiNb 19 10	1.4541 1.4550 1.4552

Packaging and Available Sizes

Tube Weight	3.2	2.4	2.0	1.6	1.2	1.0	0.8	Diameter
5 ka	Χ	Х	Х	Χ	_	_	_	TIG Rod



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TIG Rod for Welding of Austenitic Stainless Steels

Classification

AWS A5.9 : ER309L ISO 14343-A : W 23 12 L

General Description

Solid rod for welding stainless steel to carbon steel.

Chemical Composition (w%), Typical, Wire

C Si Mn Cr Ni Mo P+S < 0.03 0.45 1.70 24 13 0.15 < 0.035

Mechanical Properties, Typical, All Weld Metal

GOST

Yield Strength : 410 N/mm²
Tensile Strength : 590 N/mm²
Elongation (L=5d) : 35 %

Impact ISO-V : 100 J (+20°C)

Shielding Gases (acc. ISO 14175 and EN 439)

TIG: I1 - Ar (%100)

Materials to be Welded

 EN 10088-1/-2
 Mat. Nr.

 Corrosion resistant cladsteels
 X2 CrNiN 18 10
 1.4311

 X2 CrNi 19 11
 1.4306

 X4 CrNi 18 10
 1.4301

Dissimilar metals (mild and low alloyed steel to stainless steel)

Build-up welding on mild and low alloyed steel

Packaging and Available Sizes

Diameter	0.8	1.0	1.2	1.6	2.0	2.4	3.2	Tube Weight
TIG Rod	-	-	-	Χ	Χ	Χ	Χ	5 kg

8





AS TIG 316L

TIG Rod for Welding of Austenitic Stainless Steels

Classification

AWS A5.9 : ER316L ISO 14343-A : W 19 12 3 L

General Description

Solid rod with extra low carbon for welding austenitic CrNiMo-steels.

High resistance to intergranular corrosion and general corrosion conditions.

Chemical Composition (w%), Typical, Wire

С	Si	Mn	Cr	Ni	Mo	P+S	
< 0.03	0.45	1.70	18	12	2.50	< 0.060	

Mechanical Properties, Typical, All Weld Metal

Approvals

Yield Strength : 400 N/mm²
Tensile Strength : 620 N/mm²
Elongation (L=5d) : 35 %

%

Impact ISO-V : $100 \text{ J} (+20^{\circ}\text{C})$

GOST, SEPRO

ABS (ER316L)

Shielding Gases (acc. ISO 14175 and EN 439)

TIG: I1 - Ar (%100)

Materials to be Welded

	EN 10088-1/-2	EN 10213-4	Mat. Nr.
Extra Low Carbon (C < %0.03)	X2 CrNiMo 17 12 2 X2 CrNiMo 18 14 3 X2 CrNiMoN 17 11 2 X2 CrNiMoN 17 13 3		1.4404 1.4435 1.4406 1.4429
$\begin{array}{l} \textbf{Medium Carbon} \\ (C > \%0.03) \end{array}$	X4 CrNiMo 17 12 2 X4 CrNiMo 17 13 3	G-X5 CrNiMo 19 11	1.4401 1.4436 1.4408
Ti/Nb Stabilized	X6 CrNiMoTi 17 12 2 X6 CrNiMoNb 17 12 2 X6 CrNiNb 18 10	G-X5 CrNiNb 19 10	1.4571 1.4580 1.4550 1.4552

Packaging and Available Sizes

Diameter	0.8	1.0	1.2	1.6	2.0	2.4	3.2	Tube Weight
TIG Rod	-	-	-	Χ	Χ	Χ	Χ	5 kg



AS MIG AISI5 / AS TIG AISI5







MIG Wire and TIG Rod for Welding of Aluminium Alloys

Classification

AWS A5.10: ER4043

ISO 18273 : S AI 4043A / AISi5(AI)

General Description

Solid wire and rod for welding of aluminium-silicium alloys.

Chemical Composition (w%), Typical, Wire

Si	Mn	Fe	Cu	Zn	Ti	Al	
4.5 - 5.5	< 0.05	< 0.50	< 0.30	< 0.10	< 0.01	kalan	

Mechanical Properties, Typical, All Weld Metal

Elongation (L=5d) : 15 %

Impact ISO-V : $20 \text{ J} (+20^{\circ}\text{C})$

Shielding Gases (acc. ISO 14175 and EN 439)

MIG: I1 - Ar (%100) TIG: I1 - Ar (%100)

Materials to be Welded

	DIN 1725-1	DIN 1725-2	Mat. Nr.	Alloy Nr.
Aluminium Wrought Alloys	AlMgSi 0.5 AlMgSi 0.7 AlMgSi 0.8		3.3206 3.3210 3.2316	6060 6005A 6181
Aluminium Cast Alloys		G-AISi 5		443.0

Packaging and Available Sizes

Diameter	0.8	1.0	1.2	1.6	2.0	2.4	3.2	4.0	Spool/Tube Weight
MIG Wire	_	Χ	Χ	_	_	_	_	-	7 kg
TIG Rod	-	-	-	-	Χ	Χ	-	Χ	5 kg

10







AS MIG AISi12 / AS TIG AISi12

MIG Wire and TIG Rod for Welding of Aluminium Alloys

Classification

AWS A5.10: ER4047

ISO 18273 : S AI 4047A / AISi12(AI)

General Description

Solid wire and rod for welding of cast aluminium alloys containing up to 12% silicium.

Chemical Composition (w%), Typical, Wir

Si Mn Fe Cu Zn Ti Al 11.5 - 12.5 < 0.15 < 0.50 < 0.30 < 0.20 < 0.01 kalan

Mechanical Properties, Typical, All Weld Metal

Yield Strength: 80 N/mm²Melting Range : 575 - 585 °CTensile Strength: 180 N/mm²Density: 2.65 gr/cm³

Elongation (L=5d): 5 %

Shielding Gases (acc. ISO 14175 and EN 439)

MIG: I1 - Ar (%100) TIG: I1 - Ar (%100)

Materials to be Welded

DIN 1725-1 DIN 1725-2 Mat. Nr. Alloy Nr. 3.3581 **Aluminium Cast Alloys** G-AISi 12 A413.0 G-AlSi 12 (Cu) 3.3583 G-AlSi 10 Mg 3.2381 361.0 G-AlSi 10 Mg (Cu) 3.2383 G-AlSi 9 Mg 3.2373 359.0 G-AlSi 9 Cu 3 3.2161 356.0 G-AlSi 7 Mg 3.2171 G-AlSi 6 Cu 4 3.2151 319.0

Packaging and Available Sizes

Diameter	0.8	1.0	1.2	1.6	2.0	2.4	3.2	4.0	Spool/Tube Weight
MIG Wire	-	Χ	Х	-	-	-	-	-	7 kg
TIG Rod	-	-	-	-	Χ	-	Χ	-	5 kg







AS MIG AIMg5 / AS TIG AIMg5

MIG Wire and TIG Rod for Welding of Aluminium Alloys

Classification

AWS A5.10: ER5356

ISO 18273 : S AI 5356 / AIMg5

General Description

Solid wire and rod for welding of aluminium alloys containing more than 3% magnesium.

Chemical Composition (w%), Typical, Wire

Si	Mg	Mn	Fe	Cr	Cu	Zn	Ti	Al	
0.15	4.5 - 5.5	< 0.20	< 0.40	< 0.15	< 0.10	< 0.10	< 0.06	kalan	

Mechanical Properties, Typical, All Weld Metal

: 130 N/mm² Melting Range: 565 - 635 °C Yield Strength Tensile Strength : 280 N/mm² Density 2.65 gr/cm³

Elongation (L=5d): 25 %

Shielding Gases (acc. ISO 14175 and EN 439)

MIG: I1 - Ar (%100) TIG: I1 - Ar (%100)

Materials to be Welded

Aluminium Wrought Alloys

DIN 1725-1	Mat. Nr.	Alloy Nr.
AIMg 3	3.3535	5754
AIMg 4.5	3.3345	5082
AIMg 5	3.3555	5056A
AlMg 2 Mn 0.8	3.3527	5049
AlMg 2.7 Mn	3.3537	5454
AlMg 4 Mn	3.3545	5086
AlZn 4.5 Mg 1	3.4335	7020

Aluminium Cast Alloys

DIN 1725-2	Mat. Nr.	Alloy Nr.
G-AIMg 3 G-AIMg 3 Si G-AIMg 5 G-AIMg 5 Si	3.3541 3.3241 3.3561 3.3261	512.0 B535.0

Packaging and Available Sizes

Diameter	0.8	1.0	1.2	1.6	2.0	2.4	3.2	4.0	Spool/Tube Weight
MIG Wire	-	Χ	Χ	-	-	-	-	-	7 kg
TIG Rod	-	-	-	-	Χ	Χ	-	-	5 kg

12





AS FC-71 Super

Flux Cored Welding Wire for Welding of Un-Alloy Steels

Classification

AWS A5.20 : E71T-1H8 EN ISO 17632-A: T42 2 PC 2 H10

General Description

All position gas shielded flux cored wire for high quality welding.

Excellent operator appeal due to superior welding characteristics.

Specially developed for welding with 100% CO₂. Also suitable for welding on coated plate with use of 100% CO₂.

Smooth arc with low spatter.

Good mechanical properties.

Excellent wire feeding.

Chemical Composition (w%), Typical, All Weld Metal

С	Si	Mn	Р	S
0.05	0.50	1.50	< 0.015	< 0.015

Mechanical Properties, Typical, All Weld Meta

Yield Strength 525 N/mm² Tensile Strength : 597 N/mm² Elongation (L=5d) : 28 % Impact ISO-V : 106 J (-20°C)

Approvals

ABS RINA SEPR0 E71T-1H8 3Y S H10

Shielding Gases (acc. ISO 14175 and EN 439) **Current Type**

MAG: C1 - CO₂ (%100) DC(+)15 - 25 I/min

Packaging and Available Sizes

Diameter	0.8	1.0	1.2	1.6	2.0	2.4	2.8	Spool weight
Flux Cored Wire	-	-	Х	-	-	-	-	15 kg

Liability: All information in this data sheet is based on the best available knowledge, is subject to change without notice and can only be considered as suitable for general guidance. Fumes: Consult information on Welding Safety Sheet, available upon request.

13





AS FC-71 Super

Flux Cored Welding Wire for Welding of Un-Alloy Steels

Materials to be Welded

General Structural Steel: S185, S235, S275

Ship Plates : Grade A, B, D, AH32 - EH36

Cast Steel : GP240R

Pipe Material : X42, X46, X52

Boiler & Pressure Vessel Steel : P235GH, P265GH, P295GH, P355GH

P275N/NH, P355N/NH

Fine Grained Steel : \$275, \$355, \$420

S275M, S275ML, S355M, S355ML, S420M, S420ML



14

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AS KARBON

Carbon Arc Electrode for Cutting and Gouging Applications

General Description

Arc carbon cutting process is based on the integral function of electric arc and pressurized air üsing in cutting process. The metal that is molten by electric arc, is removed by the air jet. The tip of the arc cutting torch, is suitables for every cutting / gouging positions and supported by special nozzle that directs to air-jet. This process uses carbon, pressurized air and electric current to cut or gouge the metals and has many advantages over the conventionel cutting processes like oxy-fuel or saw blade cutting.

Advantages:

- High speed gouging and metal removals,
- Easy usage,
- Cleaner and more comfortables working environment than other ones,
- Enables to work with different materials like mild and stainless steels, cast irons, copper and light alloys,
- No risk of explosion.

How to Use the Carbon Arc Cutting Electrodes?

- Connect the electrode with the DC(+) current to the work piece,
- Connect the air-jet apparatus to the electrode holder,
- Keep the distance between electrode and work pieces about 150 mm. Consider the type of current (DC or AC), diameter of the electrode, amount of current and other parameters like material type,
- Turn the air-jet valve on
- Establish the arc between electrode and work piece. Arc distance must be kept around 1 to 5 mm (very short),
- To remove the metal, that is cut or gouge, bend the electrode about 30° (maximum current limit must not be exceeded).

Approvals

SEPR0



Application Areas

Foundries:

To remove and gouge of the risers and runners of the mild / alloyed steel and iron castings.

Steel Industries :

Removing of the slag inclusions on the alloyed non-alloyed steel billet and slabs, blums, surface cleaning of the faulty weld beads.

Manufacturing of the Pressure-Vessel, Ship and Steel Constructions:

The surface cleaning of the rear side of the double sided welding applications before the process removing of the miswelded parts, weld beads from the process region and cutting the alloyed steel work pieces.

Repair and Maintenance Factories:

Pipe, metal sheets cutting and maintenance of the cast pieces.

Carbon Cutting Parameters / Packaging and Available Sizes

Diameter [mm]	Length [mm]	Current [Amp]	Voltage [V]	Electrode Weight [gr/100 pcs]	Packaging [pcs/box]	
6.4	305	150 - 350	41 - 43	2000	50	
8.0	305	200 - 450	44 - 48	2600	50	
10.0	305	300 - 550	46 - 50	4600	50	

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15





AS Tungsten TIG Electrodes

Pure Tungsten (GREEN) and 2% Thoriated Tungsten (RED) TIG Electrodes



AS Pure Tungsten Electrodes (Color Code: GREEN): AWS A5.12: EWP

Pure tungsten electrodes have an AWS (American Welding Society) classification of EWP and typically are less expensive than their "alloyed" counterparts. They contain 99.50% tungsten and have the highest consumption rate of all electrodes, and provide a clean, balled tip when heated. This shape offers especially good arc stability for AC welding with a balanced waveform. Pure tungsten electrodes also provide good arc stability for AC sine wave welding on aluminum and magnesium. They are not, however, used for DC welding.

AS 2 % Thoriated Tungsten Electrodes (Color Code: RED): AWS A5.12: EWTh-2

Preferred for their longevity and ease of use, 2% thoriated tungsten electrodes are the most commonly used electrodes today. They contain a minimum of 97.30% tungsten and 1.70% to 2.20% thorium, and they have an AWS classification of EWTh-2.

These electrodes offer good arc starts and provide a higher current-carrying capacity than many other types. 2% thoriated tungsten also operates far below its melting temperature, which results in a considerably lower rate of consumption, minimizes arc wandering and lessens instances of weld contamination. These electrodes can be used for AC welding, and they are exceptional for DC electrode negative (straight polarity) on carbon and stainless steel, nickel and titanium applications.

During manufacturing, thorium is evenly dispersed throughout the electrode. This evenness allows the electrode to maintain a sharpened edge the ideal electrode shape for welding thin steel. Sharpening the electrode's point, however, should be done with great care. Thoriated tungsten contains low levels of radioactivity. Therefore, operators must always follow manufacture's warnings, instructions, and the MSDS (Material Safety Data Sheet) for its use.

Diameter [mm]	Length [mm]	Packaging [pcs/box]
1.6	175	10
2.0	175	10
2.4	175	10
3.2	175	10

16

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