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SZESHANG
WELDING MATERIALS

SHANDONG SZESHANG WELDING MATERIALS CO.,LTD.

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Shandong Szeshang Welding Materials Co.,Ltd.



SZESHANG WELDING MATERIALS
ENLIGHTEN THE WORLD

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SHANDONG SZESHANG WELDING MATERIALS CO.,LTD.

COMPANY PROFILE

Shandong SZESHANG Welding Materials Co.,Ltd. is a provincial science and technology enterprise which is committed to making welding for "Innovation, Green, Environment-friendly, Energy-saving",

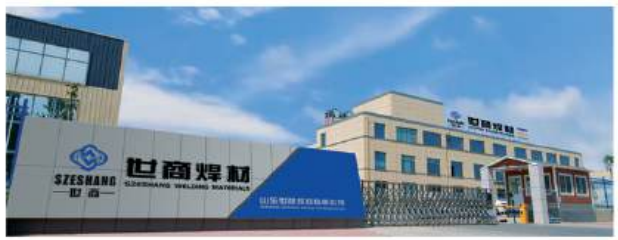
It is mainly engaged in the research and development, production, sales and service of CO2 Solid Welding Wire,Aluminum Alloy Welding Wire, Flux Cored Welding Wire. Stainless Steel and Special Welding Electrodes; The annual output exceeds 40,000 tons for solid welding wire,3,000 tons for aluminum alloy welding wire,1,0000 tons for Flux Cored Welding Wire, 8000 Tons for Stainless Steel and Special Welding electrodes. Our Products are widely used in new energy vehicle manufacturing, bridge, aerospace ,3D printing , high speed railway and other industrial fields.

From manufacturing to intelligent manufacturing, Shandong SZESHANG Welding Materials Co., Ltd. has simultaneously invested in MES system and 5G network information module to serve customers accurately and timely.

Since its establishment, our company has obtained 34 utility model patents, 8 invention patents, and 1 software copyright, and has got the honorary title of "National high-tech enterprise". Meanwhile, our company was appraised as"New Special Expertise"enterprise; "Digital Workshop", "Green factory", and"Morning Star Factory".

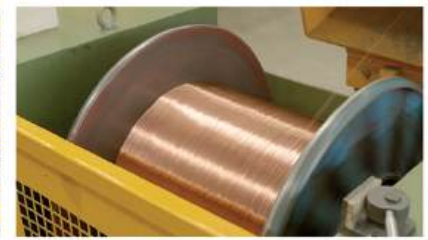
We has successively passed ISO 9001 quality management system certification,; ISO 14001 Environmental management system certification ; ISO45001 Occupational Health and Safety Management system certification ; ABS ; CCS ;DB certification, TUV (CE) certification; ISO/TS16949 Automotive Industry Quality Management System Certification, SGS certification,with a strict quality assurance.

In the future, we will continue to adhere to the product ideas of "technology determines value, service achieves the future", improving and enhancing product innovation , environmental protection, energy saving continuously. Accelerating the high-quality development of the enterprise, and continuing to provide high-quality products and efficient service for domestic and foreign customers.









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Main Products

Integrates development and manufacturing in-house
Specializes in manufacturing all types of welding wire and related products
Convenient water, land transportation / close to TIANJIN and QINGDAO (Port)
Finding long-term partners(mutual development, mutual benefits)

- Aluminum Alloy Welding Wire
- Gas Shielded Welding Wire
- Submerged Arc Welding Wire
- Welding Flux
- Flux Cored Welding Wire
- Stainless Steel Welding Wire
- Welding Electrode



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ALUMINUM ALLOY WELDING WIRE
SZE-ER1100

AWS A5.10 ER1100
GB/T10858-2008 SAI 1100



Introduction:

Corrosion resistant pure aluminum wire with good plasticity and for gas protective or argon arc welding.

Uses:

Pure aluminum welding wire Used for welding electric power, chemical, food, metallurgical and railway locomotives and other industries related to aluminum.

Typical Chemical Composition of welding wire (%)								
Cu	Si	Fe	Mn	Mg	Cr	Zn	Ti	Al
0.10	1.00	--	0.05	--	--	0.10	--	99.5

Packing terms							
Diameter	0.6mm	0.8mm	0.9mm	1.0mm	1.2mm	1.6mm	2.0mm
Plastic spool 0.5kg D100mm	√	√	√	√	√		
Plastic spool 2kg D200mm	√	√	√	√	√	√	
Plastic spool 7kg D270mm	√	√	√	√	√	√	√
Plastic spool 7kg D300mm	√	√	√	√	√	√	√
Metal basket 7kg K300mm	√	√	√	√	√	√	√

Packing terms						
Diameter	1.2mm	1.6mm	2.0mm	2.4mm	3.2mm	4.0mm
TIG/1000mm x 5kg/tube	√	√	√	√	√	√

ALUMINUM ALLOY WELDING WIRE
SZE-ER4043

AWS A5.10 ER4043
GB/T10858-2008 SAI 4043



Introduction:

SZE-ER4043 is one of the oldest and most widely used welding and brazing alloys. can be classified as a general purpose type filler alloy. It is widely used in welding of 6061, 6XXX series aluminum alloy, 3XXX series and 2XXX series aluminum alloys.

Uses:

Al-Si welding wire used for welding Ships, chemicals, mold, metallurgy and automobile industries related to aluminum.

Typical Chemical Composition of welding wire (%)							
Cu	Si	Fe	Mn	Mg	Zn	Ti	Al
0.30	4.5-6.0	0.80	0.05	0.05	0.10	0.20	Rem

Packing terms							
Diameter	0.6mm	0.8mm	0.9mm	1.0mm	1.2mm	1.6mm	2.0mm
Plastic spool 0.5kg D100mm	√	√	√	√	√		
Plastic spool 2kg D200mm	√	√	√	√	√	√	
Plastic spool 7kg D270mm	√	√	√	√	√	√	√
Plastic spool 7kg D300mm	√	√	√	√	√	√	√
Metal basket 7kg K300mm	√	√	√	√	√	√	√

Packing terms						
Diameter	1.2mm	1.6mm	2.0mm	2.4mm	3.2mm	4.0mm
TIG/1000mm x 5kg/tube	√	√	√	√	√	√

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ALUMINUM ALLOY WELDING WIRE
SZE-ER4047

AWS A5.10 ER4047
GB/T10858-2008 SAI 4047

Introduction:

SZE-ER4047 is the eutectic aluminum silicon alloy welding wire with about 12% Si element. Suitable for Al-Si, Al-Si-Mg, Al Si mg Cu wrought aluminum and aluminum (7% Si) argon arc welding. Low melting point and good fluidity to base the welding deformation is small, mainly for blazing and soldering.

Uses:

Used for jointing or overlay light alloy processing.



Typical Chemical Composition of welding wire (%)							
Cu	Si	Fe	Mn	Mg	Cr	Zn	Al
0.3	11.0-13.0	0.80	0.15	0.10	0.05	0.20	Rem

Packing terms							
Diameter	0.6mm	0.8mm	0.9mm	1.0mm	1.2mm	1.6mm	2.0mm
Plastic spool 0.5kg D100mm	√	√	√	√	√		
Plastic spool 2kg D200mm	√	√	√	√	√	√	
Plastic spool 7kg D270mm	√	√	√	√	√	√	√
Plastic spool 7kg D300mm	√	√	√	√	√	√	√
Metal basket 7kg K300mm	√	√	√	√	√	√	√

Packing terms						
Diameter	1.2mm	1.6mm	2.0mm	2.4mm	3.2mm	4.0mm
TIG/1000mm x 5kg/tube	√	√	√	√	√	√

ALUMINUM ALLOY WELDING WIRE
SZE-ER5183

AWS A5.10 ER5183
GB/T10858-2008 SAI 5183

Introduction:

Good corrosion resistance and high strength, for argon arc welding.

Uses:

Al-Mg alloy welding wire used for welding ships, offshore platforms, railway locomotive and car manufacturing and other industries related to aluminum.



Typical Chemical Composition of welding wire (%)								
Cu	Si	Fe	Mn	Mg	Cr	Zn	Ti	Al
0.10	0.40	0.40	0.05-1.00	4.30-5.20	0.05-0.25	0.25	0.15	Rem

Packing terms							
Diameter	0.6mm	0.8mm	0.9mm	1.0mm	1.2mm	1.6mm	2.0mm
Plastic spool 0.5kg D100mm	√	√	√	√	√		
Plastic spool 2kg D200mm	√	√	√	√	√	√	
Plastic spool 7kg D270mm	√	√	√	√	√	√	√
Plastic spool 7kg D300mm	√	√	√	√	√	√	√
Metal basket 7kg K300mm	√	√	√	√	√	√	√

Packing terms						
Diameter	1.2mm	1.6mm	2.0mm	2.4mm	3.2mm	4.0mm
TIG/1000mm x 5kg/tube	√	√	√	√	√	√

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ALUMINUM ALLOY WELDING WIRE
SZE-ER5356

AWS A5.10 ER5356
GB/T10858-2008 SAI 5356

Introduction:

SZE-ER5356 is the aluminum magnesium alloy wire with a small amount of titanium. It has a good corrosion resistance, heat resistance, good crack resistance, high strength, good ductility. Weld anodizing is white, which can provide good color match. It is a universal type welding widely.

Uses:

Al-Mg alloy welding wire used for welding ships, offshore platforms, railway locomotive and car manufacturing and other industries related to aluminum.



Typical Chemical Composition of welding wire (%)

Cu	Si	Fe	Mn	Mg	Cr	Zn	Ti	Al
0.10	0.25	0.40	0.05-0.20	4.50-5.50	0.05-0.20	0.10	0.06-0.20	Rem

Packing terms

Diameter	0.6mm	0.8mm	0.9mm	1.0mm	1.2mm	1.6mm	2.0mm
Plastic spool 0.5kg D100mm	√	√	√	√	√		
Plastic spool 2kg D200mm	√	√	√	√	√	√	
Plastic spool 7kg D270mm	√	√	√	√	√	√	√
Plastic spool 7kg D300mm	√	√	√	√	√	√	√
Metal basket 7kg K300mm	√	√	√	√	√	√	√

Packing terms

Diameter	1.2mm	1.6mm	2.0mm	2.4mm	3.2mm	4.0mm
TIG/1000mm x 5kg/tube	√	√	√	√	√	√

ALUMINUM ALLOY WELDING WIRE
SZE-ER5087

AWS A5.10 ER5087
GB/T10858-2008 SAI 5087

Introduction:

Good weld ability, plasticity and corrosion resistance for gas protective or argon arc welding, has good performance in mechanics.

Uses:

Widely used in welding joint with special requirement of higher intensitylike engine, electric, power, chemistry, and food etc.



Typical Chemical Composition of welding wire (%)

Cu	Si	Fe	Mn	Mg	Cr	Zn	Ti	Al
0.05	0.25	0.40	0.70-1.10	4.50-5.20	0.05-0.25	0.25	0.15	Rem

Packing terms

Diameter	0.6mm	0.8mm	0.9mm	1.0mm	1.2mm	1.6mm	2.0mm
Plastic spool 0.5kg D100mm	√	√	√	√	√		
Plastic spool 2kg D200mm	√	√	√	√	√	√	
Plastic spool 7kg D270mm	√	√	√	√	√	√	√
Plastic spool 7kg D300mm	√	√	√	√	√	√	√
Metal basket 7kg K300mm	√	√	√	√	√	√	√

Packing terms

Diameter	1.2mm	1.6mm	2.0mm	2.4mm	3.2mm	4.0mm
TIG/1000mm x 5kg/tube	√	√	√	√	√	√

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SOLID WIRE
SZE-ER50-6Z

AWS A5.18 ER70S-6
EN ISO 14341-A G 42 2 C1 Z
GB/T8110 ER50-6

Introduction:

Non-copper coated wire is for the GMAW of mild and high strength steels, It reduces the welding fume and protect welder fitness, increases productivity and decreases the welding cost, with the characteristic of stable arc, low splashing, high deposited efficiency, feeding stability.

Uses:

Used for welding 500 MPa low alloy steel single and muti-pass welding; also for high speed thin plates, pipe line steel welding. Suitable for manual welding, automatic welding and robot welding, such as oil machinery, heavy crane machinery, pressure vessels, oil-chemical vessels, ship body, bridge, construction steel structure, ect.



Typical Chemical Composition of welding wire (%)

C	Mn	Si	P	S	Cu	Other
0.08	1.50	0.80	0.010	0.020	0.11	Ni: 0.029
						Cr: 0.022
						Mo: 0.008
						V: 0.020

Typical Mechanical Properties of The Deposited Metal (100% CO_2)

Yield Strength ReL (Mpa)	Tensile Strength Rm(Mpa)	Elongation δ5(%)	Impact test	
			Temperature (℃)	Impact Energy KV_2(J)
470	560	31	-30 ℃	90

Size and recommended current range

Diameter	0.6mm	0.8mm	0.9mm	1.0mm	1.2mm	1.6mm
Amps	40~100	50~140	50~200	50~220	80~350	120~550

Packing terms

Diameter	0.6mm	0.8mm	0.9mm	1.0mm	1.2mm	1.6mm	2.0mm
Plastic spool 1kg D100mm	√	√	√	√	√		
Plastic spool 5kg D200mm	√	√	√	√	√	√	
Plastic spool 15kg D270mm	√	√	√	√	√	√	√
Plastic spool 15kg K300mm	√	√	√	√	√	√	√
Drum packing 100kg		√	√	√	√	√	
Drum packing 250kg/350kg		√	√	√	√	√	√

Packing terms

Diameter	1.2mm	1.6mm	2.0mm	2.4mm	3.2mm	4.0mm
TIG/1000mm x 5kg/tube	√	√	√	√	√	√
TIG/1000mm x 10kg/tube	√	√	√	√	√	√

SOLID WIRE
SZE-ER50-6

AWS A5.18 ER70S-6
DIN8559 SG2
EN440 G3Si1
GB/T8110 ER50-6

Introduction:

Strong resistance to surface scales and oil stains on the base metal. It has low blowhole sensitivity.

Uses:

Used for welding 500 MPa low alloy steel single and muti -pass welding; also for high speed thin plates, pipe line steel welding. Suitable for manual welding, automatic welding and robot welding, such as oil machinery, heavy crane machinery, pressure vessels, oil-chemical vessels, ship body, bridge, construction steel structure, ect.



Typical Chemical Composition of welding wire (%)

C	Mn	Si	P	S	Cu	Other
0.07	1.53	0.85	0.011	0.010	0.12	Ni: 0.029
						Cr: 0.022
						Mo: 0.008
						V: 0.010

Typical Mechanical Properties of The Deposited Metal (100% CO_2)

Yield Strength ReL (Mpa)	Tensile Strength Rm(Mpa)	Elongation δ5(%)	Impact test	
			Temperature (℃)	Impact Energy KV_2(J)
425	540	31	-30 ℃	89

Size and recommended current range

Diameter	0.6mm	0.8mm	0.9mm	1.0mm	1.2mm	1.6mm
Amps	40~100	50~140	50~200	50~220	80~350	120~550

Packing terms

Diameter	0.6mm	0.8mm	0.9mm	1.0mm	1.2mm	1.6mm	2.0mm
Plastic spool 1kg D100mm	√	√	√	√	√		
Plastic spool 5kg D200mm	√	√	√	√	√	√	
Plastic spool 15kg D270mm	√	√	√	√	√	√	√
Plastic spool 15kg K300mm	√	√	√	√	√	√	√
Drum packing 100kg		√	√	√	√	√	
Drum packing 250kg/350kg		√	√	√	√	√	√

Packing terms

Diameter	1.2mm	1.6mm	2.0mm	2.4mm	3.2mm	4.0mm
TIG/1000mm x 5kg/tube	√	√	√	√	√	√
TIG/1000mm x 10kg/tube	√	√	√	√	√	√

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SOLID WIRE
SZE-ER50-2

AWS A5.18 ER70S-2
EN440 G2Ti

Introduction:
SZE-ER50-2 is a solid wire for Single-pass and multi-pass welding and butt or fillet structures made of 450Mpa and 500Mpa tensile strength steel, in particular for high speed welding sheet, e.g. automobile.

Uses:
It is suitable for the welding of High-speed welding of carbon steel sheet metal and general fabrication for Automotive, structural fabrication, sheet metal, repair shops.



Typical Chemical Composition of welding wire (%)

C	Mn	Si	P	S	Cu	other
0.05	1.2	0.6	0.016	0.01	0.2	A1: 0.08 Ti: 0.11 Zr: 0.08

Typical Mechanical Properties of The Deposited Metal (100% CO_2)

Yield Strength ReL (Mpa)	Tensile Strength Rm(Mpa)	Elongation δ5(%)	Impact test	
			Temperature (℃)	Impact Energy KV2(J)
445	540	25	-30	60

Packing terms

Diameter	0.6mm	0.8mm	0.9mm	1.0mm	1.2mm	1.6mm	2.0mm
Plastic spool 1kg D100mm	√	√	√	√	√		
Plastic spool 5kg D200mm	√	√	√	√	√	√	
Plastic spool 15kg D270mm	√	√	√	√	√	√	√
Metal basket 15kg K300mm	√	√	√	√	√	√	√
Drum packing 100kg		√	√	√	√	√	
Drum packing 250kg/350kg		√	√	√	√	√	√

Packing terms

Diameter	1.2mm	1.6mm	2.0mm	2.4mm	3.2mm	4.0mm
TIG/1000mm x 5kg/tube	√	√	√	√	√	√
TIG/1000mm x 10kg/tube	√	√	√	√	√	√

SOLID WIRE
SZE-ER50-3

AWS A6.18 ER70S-3
EN440 G2Si1
DIN8559 SG1
GB/T8110 ER50-3
JIS Z3312 YGW16

Introduction:
SZE-ER50-3 is a kind of CO2 gas-shielded welding wire. It has excellent welding performance, smooth and beautiful bead and fewer spatters.

Uses:
1.Used for welding low-carbon steel thin plates.
2.Used for welding low-carbon steel parts with thorough surface treatment.



Typical Chemical Composition of welding wire (%)

C	Mn	Si	P	S	Cu	other
0.074	1.01	0.62	0.015	0.011	0.11	Ni: 0.021 Cr: 0.020 Mo: 0.007 V: 0.010

Typical Mechanical Properties of The Deposited Metal (100% CO_2)

Yield Strength ReL (Mpa)	Tensile Strength Rm(Mpa)	Elongation δ5(%)	Impact test	
			Temperature (℃)	Impact Energy KV2(J)
435	540	29	-20	90

Size and recommended current range

Diameter	0.6mm	0.8mm	0.9mm	1.0mm	1.2mm	1.6mm
Amps	/	50~140	50~200	50~220	80~350	170~450

Packing terms

Diameter	0.6mm	0.8mm	0.9mm	1.0mm	1.2mm	1.6mm	2.0mm
Plastic spool 1kg D100mm	√	√	√	√	√		
Plastic spool 5kg D200mm	√	√	√	√	√	√	
Plastic spool 15kg D270mm	√	√	√	√	√	√	√
Metal basket 15kg K300mm	√	√	√	√	√	√	√
Drum packing 100kg		√	√	√	√	√	
Drum packing 250kg/350kg		√	√	√	√	√	√

Packing terms

Diameter	1.2mm	1.6mm	2.0mm	2.4mm	3.2mm	4.0mm
TIG/1000mm x 5kg/tube	√	√	√	√	√	√
TIG/1000mm x 10kg/tube	√	√	√	√	√	√

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SOLID WIRE
SZE-ER50-4

AWS A6.18 ER70S-4
GB/T8110 ER50-4

Introduction:

SZE-ER50-4 welding wire has CO2 or Ar+ CO25%-20% as shielding gas. It has excellent welding performance. It has good one-time shaping performance. When used in argon-rich mixed gas arc welding, the bead is delicate and beautiful.



Uses:

1. Used for welding sheet metal and thin plates.
2. Used for welding steel pipes.

Typical Chemical Composition of welding wire (%)

C	Mn	Si	P	S	Cu	other
0.11	1.11	0.72	0.016	0.013	0.19	Ni: 0.026 Cr: 0.022 Mo: 0.007

Typical Mechanical Properties of The Deposited Metal (100% CO_2)

Yield Strength ReL (Mpa)	Tensile Strength Rm(Mpa)	Elongation δ5(%)	Impact test	
			Temperature (℃)	Impact Energy KV2(J)
425	540	29	-30	75

Size and recommended current range

Diameter	0.8mm	1.0mm	1.2mm	1.6mm		
Amps	50~140	50~220	80~350	120~550		

Packing terms

Diameter	0.6mm	0.8mm	0.9mm	1.0mm	1.2mm	1.6mm	2.0mm
Plastic spool 1kg D100mm	√	√	√	√	√		
Plastic spool 5kg D200mm	√	√	√	√	√	√	
Plastic spool 15kg D270mm	√	√	√	√	√	√	√
Metal basket 15kg K300mm	√	√	√	√	√	√	√
Drum packing 100kg		√	√	√	√	√	
Drum packing 250kg/350kg		√	√	√	√	√	√

Packing terms

Diameter	1.2mm	1.6mm	2.0mm	2.4mm	3.2mm	4.0mm
TIG/1000mm x 5kg/tube	√	√	√	√	√	√
TIG/1000mm x 10kg/tube	√	√	√	√	√	√

SOLID WIRE
SZE-ER49-1

GB/T8110 ER49-1

Introduction:

SZE-ER49-1 welding wire has excellent welding performance. When welding, it has stable arc, fewer spatters and excellent blowhole-resistance.



Uses:

Used for welding low-carbon steel and some low-alloy steel structures.

Typical Chemical Composition of welding wire (%)

C	Mn	Si	P	S	Cu	other
0.06	1.9	0.8	0.015	0.011	0.11	Ni: 0.005 Cr: 0.021

Typical Mechanical Properties of The Deposited Metal (100% CO_2)

Yield Strength ReL (Mpa)	Tensile Strength Rm(Mpa)	Elongation δ5(%)	Impact test	
			Temperature (℃)	Impact Energy KV2(J)
400	520	30	Room Temp.	101

Packing terms

Diameter	0.6mm	0.8mm	0.9mm	1.0mm	1.2mm	1.6mm	2.0mm
Plastic spool 1kg D100mm	√	√	√	√	√		
Plastic spool 5kg D200mm	√	√	√	√	√	√	
Plastic spool 15kg D270mm	√	√	√	√	√	√	√
Metal basket 15kg K300mm	√	√	√	√	√	√	√
Drum packing 100kg		√	√	√	√	√	
Drum packing 250kg/350kg		√	√	√	√	√	√

Packing terms

Diameter	0.6mm	0.8mm	0.9mm	1.0mm	1.2mm	1.6mm	2.0mm
Piastic spool 1kg D100mm	√	√	√	√	√		
Plastic spool 5kg D200mm	√	√	√	√	√	√	
Plastic spool 15kg D270mm	√	√	√	√	√	√	√
Metal basket 15kg K300mm	√	√	√	√	√	√	√
Drum packing 100kg		√	√	√	√	√	
Drum packing 250kg/350kg		√	√	√	√	√	√

SZESHANG

SOLID WIRE
SZE-ER70S-6

AWS A5.18 ER70S-6
DIN8559 SG3
EN440 G4Si1

Introduction:
SZE-ER70S-6 is a copper coated low alloy solid wire with all position welding, has a very good performance and has a large range of current welding.

Uses:
Suitable for welding of mild steels high tensile steel,machinery, building, ships, vehicle pressure vessel steel structure and 500Mpa carbon steel and the low alloy steel.



Typical Chemical Composition of welding wire (%)						
C	Mn	Si	P	S	Cu	other
0.08	1.7	0.9	0.015	0.011	0.07	Ni: 0.005 Cr: 0.021

Typical Mechanical Properties of The Deposited Metal (100% CO_2)				
Yield Strength ReL (Mpa)	Tensile Strength Rm(Mpa)	Elongation δ5(%)	Impact test	
			Temperature (℃)	Impact Energy KV2(J)
460	560	30	-30	80

Packing terms							
Diameter	0.6mm	0.8mm	0.9mm	1.0mm	1.2mm	1.6mm	2.0mm
Piastic spool 1kg D100mm	√	√	√	√	√		
Plastic spool 5kg D200mm	√	√	√	√	√	√	
Plastic spool 15kg D270mm	√	√	√	√	√	√	√
Metal basket 15kg K300mm	√	√	√	√	√	√	√
Drum packing 100kg		√	√	√	√	√	
Drum packing 250kg/350kg		√	√	√	√	√	√

Packing terms						
Diameter	1.2mm	1.6mm	2.0mm	2.4mm	3.2mm	4.0mm
TIG/1000mm x 5kg/tube	√	√	√	√	√	√
TIG/1000mm x 10kg/tube	√	√	√	√	√	√

SOLID WIRE
SZE-ER50-G

AWS A5.18 ER70S-G
JIS Z3312 YGW11
GB/T8110 ER50-G

Introduction:
The welding current has been strengthened to a great extent and the welding efficiency has been improved. Because the grains of the deposited metal have been refined. both the tensile strength and the yield strength are close to the upper limit of the standard of classification society for 50kg class welding materials. The impact absorbed energy has been improved obviously.



Uses:
1.Used for welding all kind of 500MPa structural steel parts,thick plates and thick pipelines.
2.Used for high speed welding on 500MPa base metals.

Typical Chemical Composition of welding wire (%)						
C	Mn	Si	P	S	Cu	other
0.1	1.45	0.71	0.011	0.013	0.14	Ti: 0.15

Typical Mechanical Properties of The Deposited Metal (100% CO_2)				
Yield Strength ReL (Mpa)	Tensile Strength Rm(Mpa)	Elongation δ5(%)	Impact test	
			Temperature (℃)	Impact Energy KV2(J)
520	593	30	-30	157

Size and recommended current range					
Diameter	0.8mm	0.9mm	1.0mm	1.2mm	1.6mm
Amps	50~100	50~180	50~220	80~350	170~450

Packing terms							
Diameter	0.6mm	0.8mm	0.9mm	1.0mm	1.2mm	1.6mm	2.0mm
Plastic spool 1kg D100mm	√	√	√	√	√		
Plastic spool 5kg D200mm	√	√	√	√	√	√	
Plastic spool 15kg D270mm	√	√	√	√	√	√	√
Metal basket 15kg K300mm	√	√	√	√	√	√	√
Drum packing 100kg		√	√	√	√	√	
Drum packing 250kg/350kg		√	√	√	√	√	√

Packing terms						
Diameter	1.2mm	1.6mm	2.0mm	2.4mm	3.2mm	4.0mm
TIG/1000mm x 5kg/tube	√	√	√	√	√	√
TIG/1000mm x 10kg/tube	√	√	√	√	√	√

SZESHANG

SOLID WIRE
SZE-ER55-G

AWS A5.28 ER80S-G
GB ER55-1
EN440 G3M1T
JIS Z3312 YGW19

Introduction:
Using argon-rich, with excellent welding performance and exquisite weld. Deposited metal has good resistance to atmospheric corrosion, crack resistance and good plasticity and toughness.

Uses:
Used for the weathering resistant structure on 500MPa such as vehicle, offshore engineering and bridge



Typical Chemical Composition of welding wire (%)						
C	Mn	Si	P	S	Cu	other
0.07	1.7	0.6	0.005	0.05	0.21	Ti: 0.15 Mo: 0.18

Typical Mechanical Properties of The Deposited Metal (100% CO_2)				
Yield Strength ReL (Mpa)	Tensile Strength Rm(Mpa)	Elongation δ5(%)	Impact test	
			Temperature (℃)	Impact Energy KV2(J)
495	590	28	-40	112

Packing terms							
Diameter	0.6mm	0.8mm	0.9mm	1.0mm	1.2mm	1.6mm	2.0mm
Plastic spool 1kg D100mm	√	√	√	√	√		
Plastic spool 5kg D200mm	√	√	√	√	√	√	
Plastic spool 15kg D270mm	√	√	√	√	√	√	√
Metal basket 15kg K300mm	√	√	√	√	√	√	√
Drum packing 100kg		√	√	√	√	√	
Drum packing 250kg/350kg		√	√	√	√	√	√

Packing terms						
Diameter	1.2mm	1.6mm	2.0mm	2.4mm	3.2mm	4.0mm
TIG/1000mm x 5kg/tube	√	√	√	√	√	√
TIG/1000mm x 10kg/tube	√	√	√	√	√	√

SOLID WIRE
SZE-ER60-G

AWS A5.28 ER90S-G
GB/T8110 ER60-G

Introduction:
SZE-ER60-G is a kind of 600MPa high toughness low-alloy steel gas-shielded welding wire. It has excellent all-position welding performance.

Uses:
Suitable for welding 600MPa high strength steel structures, such as construction machinery,pipelines,ships,pressure vessels,etc.



Typical Chemical Composition of welding wire (%)						
C	Mn	Si	P	S	Cu	other
0.07	1.7	0.6	0.005	0.05	0.21	Ti: 0.15 Mo: 0.18

Typical Mechanical Properties of The Deposited Metal (100% CO_2)				
Yield Strength ReL/Rp0.2 (Mpa)	Tensile Strength Rm(Mpa)	Elongation δ5(%)	Impact test	
			Temperature (℃)	Impact Energy KV2(J)
550	650	25	-20	103

Packing terms							
Diameter	0.6mm	0.8mm	0.9mm	1.0mm	1.2mm	1.6mm	2.0mm
Plastic spool 1kg D100mm	√	√	√	√	√		
Plastic spool 5kg D200mm	√	√	√	√	√	√	
Plastic spool 15kg D270mm	√	√	√	√	√	√	√
Metal basket 15kg K300mm	√	√	√	√	√	√	√
Drum packing 100kg		√	√	√	√	√	
Drum packing 250kg/350kg		√	√	√	√	√	√

Packing terms						
Diameter	1.2mm	1.6mm	2.0mm	2.4mm	3.2mm	4.0mm
TIG/1000mm x 5kg/tube	√	√	√	√	√	√
TIG/1000mm x 10kg/tube	√	√	√	√	√	√

SZESHANG

SOLID WIRE
SZE-ER70-G

AWS A5.18 ER100S-G

Introduction:

SZE-ER70-G is a kind of NiMo type 700MPa high toughness low-alloy steel gas-shielded welding wire. It has excellent all -position welding performance, stable arc and fewer spatters.



Uses:

Suitable for welding 700MPa high strength steel structures, such as construction machinery,hoisting machinery,bridges, pipelines,ships,pressure vessels, etc.

Typical Chemical Composition of welding wire (%)

C	Mn	Si	P	S	Cu	other
0.083	1.72	0.62	0.014	0.008	0.24	Ti: 0.10 Ni: 1.14 Mo: 0.42

Typical Mechanical Properties of The Deposited Metal (100% CO_2)

Yield Strength ReL/Rp0.2 (Mpa)	Tensile Strength Rm(Mpa)	Elongation δ5(%)	Impact test	
			Temperature (℃)	Impact Energy KV2(J)
650	750	23	-20	121

Packing terms

Diameter	0.6mm	0.8mm	0.9mm	1.0mm	1.2mm	1.6mm	2.0mm
Plastic spool 1kg D100mm	√	√	√	√	√		
Plastic spool 5kg D200mm	√	√	√	√	√	√	
Plastic spool 15kg D270mm	√	√	√	√	√	√	√
Metal basket 15kg K300mm	√	√	√	√	√	√	√
Drum packing 100kg		√	√	√	√	√	
Drum packing 250kg/350kg		√	√	√	√	√	√

Packing terms

Diameter	1.2mm	1.6mm	2.0mm	2.4mm	3.2mm	4.0mm
TIG/1000mm x 5kg/tube	√	√	√	√	√	√
TIG/1000mm x 10kg/tube	√	√	√	√	√	√

SOLID WIRE
SZE-ER80-G

AWS A5.18 ER110S-G

Introduction:

SZE-ER80-G is a kind of high strength gas-shielded welding wire. The mixed gas Ar+20% CO2 can be used as shielding gas. It has soft arc, stable burning and fewer spatters. The bead has higher impact toughness.



Uses:

Suitable for welding high strength structures with tensile strength of 790MPa. It can be used for welding some key structures,such as pressure vessels,construction machinery,hoisting machinery,ships,mining machinery,etc.

Typical Chemical Composition of welding wire (%)

C	Mn	Si	P	S	Cu	other
0.074	1.75	0.47	0.008	0.004	0.2	Cr: 0.30 Ni: 2.11 Mo: 0.54

Typical Mechanical Properties of The Deposited Metal (100% CO_2)

Yield Strength ReL/Rp0.2 (Mpa)	Tensile Strength Rm(Mpa)	Elongation δ5(%)	Impact test	
			Temperature (℃)	Impact Energy KV2(J)
730	840	24	-20	90

Packing terms

Diameter	0.6mm	0.8mm	0.9mm	1.0mm	1.2mm	1.6mm	2.0mm
Plastic spool 1kg D100mm	√	√	√	√	√		
Plastic spool 5kg D200mm	√	√	√	√	√	√	
Plastic spool 15kg D270mm	√	√	√	√	√	√	√
Metal basket 15kg K300mm	√	√	√	√	√	√	√
Drum packing 100kg		√	√	√	√	√	
Drum packing 250kg/350kg		√	√	√	√	√	√

Packing terms

Diameter	1.2mm	1.6mm	2.0mm	2.4mm	3.2mm	4.0mm
TIG/1000mm x 5kg/tube	√	√	√	√	√	√
TIG/1000mm x 10kg/tube	√	√	√	√	√	√

SZESHANG

SUBMERGED ARC WELDING WIRE
SZE-H08A

AWS A5.17 EL12
BS EN 756-S1
ISO 14171-A-S1
GB/T5293-99 H08A
JIS W11

Introduction:

SZE-H08A is a kind of low-manganese and low-silicon type welding wire. It matches with high-manganese and high-silicon type welding flux. It is not sensitive to the rust on the base metal. It has excellent bead molding and slag detachability. It is the most frequently used subm-erged-arc welding wire. Monopole or dipole. AC/DC.

Uses:

Used together with fused flux HJ431 or sintered fluxes SJ301 and SJ501. Used for both high speed welding and filling welding on 50kg class base metals.



Typical Chemical Composition of welding wire (%)

C	Mn	Si	P	S	Cu	other
0.07	0.4	0.018	0.014	0.011	0.1	

Typical Mechanical Properties of The Deposited Metal (Using with Flux SJ301)

Yield Strength ReL/Rp0.2 (Mpa)	Tensile Strength Rm(Mpa)	Elongation δ5(%)	Impact test	
			Temperature (℃)	Impact Energy KV2(J)
360	450	29	-20	80

Packing terms

Diameter	2.0mm	2.4mm	4.0mm	4.8mm
Small coil (Inner Dia 300mm) 25kg	√	√	√	√
Large coil (Inner Dia 550mm,630mm)100kg,150kg,200kg,250kg,350kg	√	√	√	√
Metal spool (Inner Dia 300mm) 25kg	√	√	√	√

SUBMERGED ARC WELDING WIRE
SZE-EM12K

AWS A5.17 EM12K
BS EN 756-S2Si
ISO 14171-A-S2Si

Introduction:

SZE-EM12K is for welding 450Mpa-500Mpa tensile strength structures,such as boiler, ships,bridges, pressure vessels as well as LPG cylinders.Before welding,the base metal must clear away impurities and the flux Must be baked in a temperature of 300℃~350℃ for 1-2 hours.

Uses:

It is suitable for the welding of Rm 490MPa level carbon steel and low alloy steel structure,such as Gr.50, and so on.



Typical Chemical Composition of welding wire (%)

C	Mn	Si	P	S	Cu	other
0.056	1.3	0.3	0.02	0.01	0.5	Cr:0.025 Ni:0.010

Typical Mechanical Properties of The Deposited Metal (Using with Flux SJ301)

Yield Strength ReL/Rp0.2 (Mpa)	Tensile Strength Rm(Mpa)	Elongation δ5(%)	Impact test	
			Temperature (℃)	Impact Energy KV2(J)
420	510	31	-20	145

Packing terms

Diameter	2.0mm	2.4mm	4.0mm	4.8mm
Small coil (Inner Dia 300mm) 25kg	√	√	√	√
Large coil (Inner Dia 550mm,630mm)100kg,150kg,200kg,250kg,350kg	√	√	√	√
Metal spool (Inner Dia 300mm) 25kg	√	√	√	√

SZESHANG

SUBMERGED ARC WELDING WIRE
SZE-H08MnA

AWS A5.17 EM12
BS EN 756-S2
ISO 14171-A-S2
GB/T5293-99 H08MnA

Introduction:

It is a kind of medium-manganese and medium-silicon type welding wire. It matches with medium-manganese and medium-silicon type welding flux. It is not sensitive to the rust on the base metal. It has excellent bead molding and slag detachability. Monopole or dipole. AC/DC.

Uses:

Used together with fused flux HJ350 or sintered flux SJ101. Used for both high speed welding and filling welding on 50kg class base metals.



Typical Chemical Composition of welding wire (%)

C	Mn	Si	P	S	Cu	other
0.066	0.88	0.022	0.01	0.013	0.075	Cr:0.02
						Ni:0.021

Typical Mechanical Properties of The Deposited Metal (Using with SJ101)

Yield Strength ReL/Rp0.2 (Mpa)	Tensile Strength Rm(Mpa)	Elongation δ5(%)	Impact test	
			Temperature (℃)	Impact Energy KV2(J)
360	480	31	-20	110

Packing terms

Diameter	2.0mm	2.4mm	4.0mm	4.8mm
Small coil (Inner Dia 300mm) 25kg	√	√	√	√
Large coil (Inner Dia 550mm,630mm)100kg,150kg,200kg,250kg,350kg	√	√	√	√
Metal spool (Inner Dia 300mm) 25kg	√	√	√	√

SUBMERGED ARC WELDING WIRE
SZE-H10Mn2

AWS A5.17 EH14
BS EN 756-S3
ISO 14171-A-S3
JIS W41
GB/T5293-99 H10Mn2

Introduction:

It is a kind of high-manganese type welding wire It matches with low-manganese and low-silicon type welding flux. It is not sensitive to the rust on the base metal. It has excellent bead molding and slag detachability. Monopole or dipole.AC/DC

Uses:

Used together with fused flux HJ350 or sintered flux SJ101. Used for both high speed welding and filling welding on 50kg class base metals. The deposited metal has very stable mechanical properties.



Typical Chemical Composition of welding wire (%)

C	Mn	Si	P	S	Cu	other
0.013	1.87	0.05	0.013	0.011	0.02	Cr:0.018
						Ni:0.015

Typical Mechanical Properties of The Deposited Metal (Using with SJ101)

Yield Strength ReL/Rp0.2 (Mpa)	Tensile Strength Rm(Mpa)	Elongation δ5(%)	Impact test	
			Temperature (℃)	Impact Energy KV2(J)
440	530	30	-20	150

Packing terms

Diameter	2.0mm	2.4mm	4.0mm	4.8mm
Small coil (Inner Dia 300mm) 25kg	√	√	√	√
Large coil (Inner Dia 550mm,630mm)100kg,150kg,200kg,250kg,350kg	√	√	√	√
Metal spool (Inner Dia 300mm) 25kg	√	√	√	√

SZESHANG

SUBMERGED ARC WELDING WIRE

SZE-H10MnSi

AWS A5.17 EM13K
BS EN 756-S2Si2
ISO 14171-A- S2Si2
GB/T5293-99 H10MnSi

Introduction:

It's a kind of welding wire with appropriate manganese and silicon content. It matches with low-manganese and low-silicon type welding flux. It is not sensitive to the rust on the base metal .It has excellent bead molding, excellent slag detachability and high welding efficiency.



Uses:

Used together with fused flux SJ301 or sintered flux SJ101. Used for both high speed welding and filling welding on 50kg class base metals .Mostly used for welding boilers, pressure vessels, bridges, ships, etc.

Typical Chemical Composition of welding wire (%)

C	Mn	Si	P	S	Cu	other
0.089	1.01	0.61	0.016	0.016	0.110	

Typical Mechanical Properties of The Deposited Metal(Using with SJ301)

Yield Strength ReL/Rp0.2 (Mpa)	Tensile Strength Rm(Mpa)	Elongation δ5(%)	Impact test	
			Temperature (℃)	Impact Energy KV2(J)
425	535	32	-20℃	110

Packing term

Diameter	2.0mm	2.4mm	3.2mm	4.0mm	4.8mm
Small coil (Inner Dia 300mm) 25kg	√	√	√	√	√
Large coil (Inner Dia 550mm,630mm) 100kg,150kg,200kg,250kg,350kg	√	√	√	√	√
Metal spool (Inner Dia 300mm) 25kg	√	√	√	√	√

SUBMERGED ARC WELDING WIRE

SZE-EH12K

AWS A5.17 EH12K

Introduction:

SZE-EH12K For welding structures made by 450Mpa-500 Mpa tensile strength carbon steels or low alloy steels, such as boiler, bridges, pressure vessels and so on.



Uses:

Critical applications requiring high strength and excellent impact toughness at low temperatures for Offshore, Pressure Vessels, Pipelines, Heavy Structural work, Shipbuilding.

Typical Chemical Composition of welding wire (%)

C	Mn	Si	P	S	Cu	other
0.084	1.84	0.65	0.020	0.009	0.046	Cr:0.020
						Ni:0.021

Typical Mechanical Properties of The Deposited Metal(Using with SJ301)

Yield Strength ReL/Rp0.2 (Mpa)	Tensile Strength Rm(Mpa)	Elongation δ5(%)	Impact test	
			Temperature (℃)	Impact Energy KV2(J)
450	590	26	-20℃	85

Packing term

Diameter	2.0mm	2.4mm	3.2mm	4.0mm	4.8mm
Small coil (Inner Dia 300mm) 25kg	√	√	√	√	√
Large coil (Inner Dia 550mm,630mm) 100kg,150kg,200kg,250kg,350kg	√	√	√	√	√
Metal spool (Inner Dia 300mm) 25kg	√	√	√	√	√

SZESHANG

WELDING FLUX
SZE-SJ101

AWS-A5.17 F6A2-EM12
AWS-A5.17 F7A4-EH14
F6A0-EL8
GB /T5293
F4A2-H08MnA F5A4-H10Mn2

Introduction:

SZE-SJ101 is a kind of fluoride-alkaline-type slag-serial sintered flux, mesh 10-60 (2.0-0.3mm),It has great capacity of sulphur removal, phosphor removal and anti-rust. Excellent welding performance, easy to deslag and with fine appearance of weld bead even in the narrow gap of deep slope entrance. The deposited metal has a good plasto-toughness, with low diffusi on of hydrogen and fine cold and heat crack resistance.



Uses:

It can be applied to different welding wires and is fit for welding of mild steel and low alloy steel. Moreover, it can be used for fast welding of pipeline steel and for welding of thick wall structure of different high-tensile steel.

Cautions:

1.The oil soil, moisture, iron and other foreign substances must be removed from the welding joint.
2.It is better to use direct current.
3.The welding flux must be baked under 300-350℃ for 2 hours.

Typical Chemical Composition of welding flux (%)

SiO_2 +TiO_2	Al_2O_3	CaO +MgO	CaF_2	S	P
15~20	25~30	25~30	15~20	≤0.05	≤0.05

(Basicity of the flux):BIIW=1.6~1.08

Typical Mechanical Properties of the Deposited Metal

Wires	Standard Models	Yield Strength ós (Mpa)	Tensile Strenghth ób (Mpa)	Ballistic work (J)	Specific Elongation δ5 (%)
H08A	F4A2-H08A	≥340	≥420	≥27(-20℃)	≥22%
H08MnA	F5A4-H08MnA	≥410	≥490	≥27(-40℃)	≥22%
H08Mn2MoA	F7021-H08Mn2MoA	≥500	≥600	≥27(-20℃)	≥17%

WELDING FLUX
SZE-SJ301

AWS-A5.17 F6A0-EL12
F7A0-EM12K
GB/T5293
F4A0-H08A F5A0-H08MnA

Introduction:

SZE-SJ301 is a kind of silicon-calcium-type sintered flux ,mesh 10-40(2.0-0.45mm) and BIIW=1.0-1.1. Either alternating or direct current can be used ,but welding wires must be connected with the positive electrode when direct current is used. The welding technology has good performance, fine detachability and fine appe-arance of weld.



Uses:

The flux is fit for the submerge-arc welding of low-carbon steel and low-alloy steel, as well as the fast single-way and double-surface welding of thin steel sheet. It is usually used for the submerge-arc welding of liquefied gas storage tanks, gas bottles and pipeline steel.

Cautions:

1.The oil soil, moisture ,iron and other foreign substances must be removed from the welding joint.
2.It is better to use direct current.
3.The welding flux must be baked under 300-350℃ for 2 hours.

Typical Chemical Composition of welding flux (%)

SiO_2 +TiO_2	Al_2O_3 + MnO	CaO +MgO	CaF_2	S	P
15~20	25~30	25~30	15~20	≤0.05	≤0.05

Typical Mechanical Properties of the Deposited Metal

Wires	Standard Models	Yield Strength ós (Mpa)	Tensile Strenghth ób (Mpa)	Ballistic work (J)	Specific Elongation δ5 (%)
H08A	F4A2-H08A	≥350	≥420	≥27(-20℃)	≥22%
H08MnA	F5A4-H08MnA	≥410	≥500	≥27(-40℃)	≥22%

SZESHANG

WELDING FLUX

SZE-SJ302

AWS-A5?17 F6A2-EL12
F7A2-EL12
GB/T5293-1999
F4A2-H08A F5A2-H08MnA

Introduction:

SZE-SJ302 is a kind of silicon-calcium-type medium sintered flux, BIIW=1.0-1.1, mesh10-40(2.0-0.45mm).Either alternating or direct current can be used. The welding bead shapes well and the welding slag is "short slag". And the welding seam has fine toughness and moisture and crack resistance.



Uses:

When applied to welding wires (H08A or H08MnA),it can weld boilers, pipeline steel and common steel.

Cautions:

1.The oil soil, moisture, iron rust and other foreign substances must be removed from the welding joint.
2.The welding flux must be baked under 300-350° C for 2 hours before welding.

Typical Chemical Composition of welding flux (%)

SiO_2 +TiO_2	Al_2O_3	CaO +MgO	CaF_2	S	P
20~30	30~40	15~25	7~10	≤0.06	≤0.06

Typical Mechanical Properties of the Deposited Metal

Wires	Standard Models	Yield Strength ós (Mpa)	Tensile Strenghth ób (Mpa)	Ballistic work (J)	Specific Elongation δ5 (%)
H08A	F4A2-H08A	≥350	≥420	≥27	≥22%
H08MnA	F5A4-H08MnA	≥410	≥490	≥27	≥22%

WELDING FLUX

SZE-SJ501

AWS-A5.17 F6A0-EL12
F7A2-EM12K
GB/T5293
F4A0-H08A F5A2-H08MnA

Introduction:

SZE-SJ501 is a kind of aluminum-titanium-type sintered flux, BIIW=0.5-0.8, mesh 10-40 (2.0-0.45mm). Either alternating or direct current can be used. It has high rust resistance and the sag is easy to drop after welding. The welding bead is smooth and the welding technology has good performance.



Uses:

When applied to various welding wires such as H08A,H08MnA, H08MnMo and H10MnSi, it can weld low-carbon steel, low-alloy steel and pressure vessel steel. And it is fit for fast welding of thin steel sheet like gas steel tanks and membrane water-cooled wall in boiler factory.

Cautions:

1.The oil soil, moisture, iron and other foreign substances must be removed from the welding joint.
2.The welding flux must be baked under 300-350℃ for 2 hours.

Typical Chemical Composition of welding flux (%)

SiO_2 +TiO_2	Al_2O_3	CaO +MgO	CaF_2	S	P
25~35	50~60	5~10	5~10	≤0.05	≤0.05

Typical Mechanical Properties of the Deposited Metal

Wires	Standard Models	Yield Strength ós (Mpa)	Tensile Strenghth ób (Mpa)	Ballistic work (J)	Specific Elongation δ5 (%)
H08A	F4A2-H08A	≥330	≥420	≥27	≥22%
H08MnA	F5A4-H08MnA	≥400	≥500	≥27	≥22%

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WELDING FLUX
SZE-HJ431

AWS-A5.17 F6A2-EL12
F7A2-EM12K
GB/T5293
F4A2-H08A F4A4-H08MnA

Introduction:
SZE-HJ431 is a kind of smelting-type, red brown to light yellow colored, glassy granulated flux with high manganese and silicon but low fluorine, mesh8-14(2.5-1.5mm),8-40(2.5-0.45mm) and 14-40(1.5-0.45mm). Either alternating or direct current can be used and Welding wires must be connected with the positive electrode when direct current is used. The welding technology has good performance.



Uses:
When applied to welding wires such as H08A,H08MnA and H10MnSi, it can weld low-carbon steel and some low-alloy steel like 16Mn and 15MnV,as well as ships, boilers and high-pressure vessels. And it also can be used for electro-slag and copper welding.

Cautions:
1.The oil soil ,moisture ,iron rust and other foreign substances must be removed from the surface before welding.
2.The flux must be baked under 300-400℃ for 2 hours.

Typical Chemical Composition of welding flux (%)

SiO_2+MnO	Al_2O_3+MgO	CaF+CaO	S	P
74~82	9~12	110~14	≤0.06	≤0.08

Typical Mechanical Properties of the Deposited Metal

Testing Item	Yield Strength ós (Mpa)	Tensile Strenghth ób (Mpa)	Ballistic work (J)	Specific Elongation δ5 (%)
Requirement	≥330	410-550	≥27	≥22
Test Value	388	504	110	30

FLUX CORED WIRE
(Carbon steel FCW)
SZE-YT501T-1

GB/T10045 E501T-1/9
AWS A5.20 E71T-1C/9C
JIS Z3313 YFW-C50DR
EN ISO 17632-B T 49 0 TI-1CA-U

Introduction:
SZE-YT501T-1 is a kind of Titania type CO2 gas-shielded flux-cored welding wire for low-carbon steel and 490MPa high strength steel. It has excellent welding performance, soft and stable arc, fewer spatters, good slag detachability and beautiful appearance of weld. It has excellent low temperature toughness, good crack-resistance and stable and reliable inherent quality.



Uses:
Used for welding structures made of carbon steel and low-alloy structural steel with tensile strength higher than or equal to 490MPa. Most widely used for welding some key structures like shipbuilding, mechanical manufacture, pressure vessels, boilers, petroleum machinery, chemical machinery, hoisting machinery, etc.

Typical Chemical Composition of welding wire (%)

C	Mn	Si	P	S	Other
0.05	1.35	0.45	0.012	0.010	-

Typical Mechanical Properties of Deposited Metal (100%CO_2)

Yield Strength ReL (Mpa)	Tensile Strength Rm(Mpa)	Elongation δ5(%)	Impact test	
			Temperature (℃)	Impact Energy KV_2(J)
480	580	27	-20 ℃	128

Reference Current (DC+)

Wire Diameter (mm)		Φ1.2	Φ1.4	Φ1.6
Current Range (A)	F	120~300	150~380	180~420
	H	120~280	150~320	180~350
	VU OH	120~260	150~270	180~280
	VD	200~300	220~300	250~300

Packing terms

Diameter	0.8mm	0.9mm	1.0mm	1.2mm	1.6mm
Plastic spool 1kg D100mm	√	√	√		
Plastic spool 5kg D200mm	√	√	√	√	√
Plastic spool 15kg D270mm	√	√	√	√	√

SZESHANG

FLUX CORED WIRE
(Carbon steel FCW)
SZE-YT711

AWS A5.20 E71T-1C-J
GB/T10045 E501T-1L
JIS Z3313 YFW-C502R
EN ISO 17632-B T49 4 T1-1CA-U

Introduction:

SZE-YT711 is an all position MAG welding flux cored wire which is designed to exhibit low temperature.

Uses:

SZE-YT711 can be used in a variety of applications, such as for shipbuilding, bridges, oceaneering, machinery, etc. Arc is stable, low spatter generation, beautiful bead appearance, little fume generation and good slag removal.



Typical Chemical Composition of welding wire (%)

C	Mn	Si	P	S	Other
0.05	1.41	0.39	0.011	0.006	100%CO_2

Typical Mechanical Properties of Deposited Metal (100%CO_2)

Yield Strength ReL (Mpa)	Tensile Strength Rm(Mpa)	Elongation δ5(%)	Impact test	
			Temperature (℃)	Impact Energy KV_2(J)
465	540	29	-40 ℃	98

Reference Current (DC+)

Wire Diameter (mm)		Φ1.2	Φ1.4	Φ1.6
Current Range (A)	F	120~300	150~380	180~420
	H	120~280	150~320	180~350
	VU OH	120~260	150~270	180~280
	VD	200~300	220~300	250~300

Packing terms

Diameter	0.8mm	0.9mm	1.0mm	1.2mm	1.6mm
Plastic spool 1kg D100mm	√	√	√		
Plastic spool 5kg D200mm	√	√	√	√	√
Plastic spool 15kg D270mm	√	√	√	√	√

FLUX CORED WIRE
(Carbon steel FCW)
SZE-YT70MC

AWS A5.20 E70T-1C
GB/T10045 E500T-1
JIS Z3313 YFW-C50DM
EN ISO 17632-B T49 2 T1-0CA-H10

Introduction:

SZE-YT70MC is a metal cored wire for flat or horizontal fillet MAG welding of mild and 490N/mm2 high tensile steel. With high welding speed, good bead appearance, excellent arc stability and low spatter generation. Slag is less and multi-layer welding can be performed without removing slag.

Uses:

Used for welding structures made of carbon steel and low-alloy structural steel with tensile strength higher than or equal to 490MPa. Most widely used for welding some key structures like shipbuilding, mechanical manufacture, pressure vessels, boilers, petroleum machinery, chemical machinery, hoisting machinery, etc.



Typical Chemical Composition of welding wire (%)

C	Mn	Si	P	S	Other
0.05	1.47	0.41	0.013	0.008	-

Typical Mechanical Properties of Deposited Metal (100%CO_2)

Yield Strength ReL (Mpa)	Tensile Strength Rm(Mpa)	Elongation δ5(%)	Impact test	
			Temperature (℃)	Impact Energy KV_2(J)
480	560	29	-20 ℃	120

Reference Current (DC+)

Wire Diameter (mm)		Φ1.2	Φ1.4	Φ1.6
Current Range (A)	F	150~350	170~400	200~450
	FF	180~350	200~350	270~400

Packing terms

Diameter	0.8mm	0.9mm	1.0mm	1.2mm	1.6mm
Plastic spool 1kg D100mm	√	√	√	√	
Plastic spool 5kg D200mm	√	√	√	√	√
Plastic spool 15kg D270mm	√	√	√	√	√
Drum packing 100-250kg				√	√

SZESHANG

FLUX CORED WIRE
(Carbon steel FCW)
SZE-YT71T-5

AWS A5.20 E71T-5C/5M
GB/T10045 E501T-5/5M
JIS Z3313 YFW-C502B
EN ISO 17632-B T49 3 T5-1C/MA

Introduction:

Introduction: SZE-Y70T-5 is a kind of calcium oxide-calcium fluoride type CO2 gas-shielded flux-cored welding wire for low-carbon steel and 490MPa high strength steel. It has excellent welding performance, stable arc, good slag detach-ability, beautiful appearance of weld. Suitable for all welding positions. The weld metal has excellent low temperature toughness above -30℃ and good crack-resistance.



Uses:

Used for welding carbon steel and low-alloy structural steel with tensile strength higher than or equal to 490MPa and with excellent low temperature toughness and good crack-resistance. Used for welding some key structures like shipbuilding, vehicles, mechanical manufacture, pressure vessels, petrochemical machinery, hoisting machinery,etc.

Typical Chemical Composition of welding wire (%)

C	Mn	Si	P	S	Other
0.07	1.58	0.34	0.022	0.012	-

Typical Mechanical Properties of Deposited Metal (100%CO_2)

Yield Strength ReL (Mpa)	Tensile Strength Rm(Mpa)	Elongation δ5(%)	Impact test	
			Temperature (℃)	Impact Energy KV_2(J)
480	570	31	-30℃	185

Reference Current (DC+)

Wire Diameter (mm)		Φ1.2	Φ1.4	Φ1.6
Current Range (A)	F H FF	120~300	150~330	180~350
	V	120~240	150~280	180~300

Packing terms

Diameter	0.8mm	0.9mm	1.0mm	1.2mm	1.6mm
Plastic spool 1kg D100mm	√	√	√		
Plastic spool 5kg D200mm	√	√	√	√	√
Plastic spool 15kg D270mm	√	√	√	√	√

FLUX CORED WIRE
(Carbon Steel Self-shielded FCW)
SZE-YT71T-11

AWS E71T-11
GB E501T-11
JIS Z3313 YFW-S50GB
EN ISO 17632-B T49 ZT11-1NA

Introduction:

SZE-YT71T-11 is a self-shielded flux cored wire for single and multi-pass applications in all positions. Arc is smooth and soft, good welding performance, full slag covering and easy slag removal.



Uses:

It is specifically designed for single-pass welding on thin-gauge mild and galvanized steels. Its versatility makes it an excellent choice for various industries, including:Automotive Repair,Home Workshops, Construction.

Typical Chemical Composition of welding wire (%)

C	Mn	Si	P	S	Al	Shielded Gas
0.08	0.60	0.14	0.012	0.009	1.22	None

Typical Mechanical Properties of Deposited Metal (100%CO_2)

Yield Strength ReL (Mpa)	Tensile Strength Rm(Mpa)	Elongation δ5(%)	Impact test	
			Temperature (℃)	Impact Energy KV_2(J)
480	530	230	-	-

Reference Current (DC+)

Wire Diameter (mm)		Φ1.2	Φ1.4	Φ1.6
Current Range (A)	F H FF	80~220	160~280	180~300
	V	80~180	120~220	-

Packing terms

Diameter	1.2mm	1.6mm	2.0mm
Plastic spool 1kg D100mm			
Plastic spool 5kg D200mm	√	√	
Plastic spool 15kg D270mm	√	√	√

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FLUX CORED WIRE
(Carbon Steel Self-shielded FCW)
SZE-YT71T-GS

AWS A5.20 E71T-GS
GB/T 10045 E501T-GS
JIS Z3313 YFW-S50GB
EN ISO 17632-B T49 Z TG-1NS

Introduction:

It is a self-shielded flux cored wire for single pass applications in all positions. Arc is smooth and soft, good welding performance, full slag covering and easy slag removal.

Uses:

SZE-YT71T-GS is suitable for welding of mild steel on bridge, oil production platform, petroleum pipeline and its dabber.



Typical Chemical Composition of welding wire (%)

C	Mn	Si	P	S	Al	Shielded Gas
0.09	0.88	0.34	0.012	0.009	1.32	None

Typical Mechanical Properties of Deposited Metal (100%CO_2)

Yield Strength ReL (Mpa)	Tensile Strength Rm(Mpa)	Elongation δ5(%)	Impact test	
			Temperature (℃)	Impact Energy KV_2(J)
-	540	-	-	-

Reference Current (DC+)

Wire Diameter (mm)		Φ1.2	Φ1.4	Φ1.6
Current Range (A)	F H FF	80~220	160~280	180~300
	V	80~180	120~220	-

Packing terms

Diameter	0.8mm	0.9mm	1.0mm	1.2mm	1.6mm
Plastic spool 1kg D100mm	√	√	√		
Plastic spool 5kg D200mm	√	√	√	√	√
Plastic spool 15kg D270mm	√	√	√	√	√

FLUX CORED WIRE
(Heat Resisting Steel FCW)
SZE-YT81B2

AWS A5.29 E81T-B2C
GB/T 17493 E551T1-B2C
JIS Z3318 YF1CM-C
EN ISO 17634-B T55 Z T1-1C-1CM

Introduction:

It is a titania type flux cored wire for all-position welding and be used for welding of 1.0% Cr-0.5%Mo high temperature steel. Arc is stable, low spatter generation, beautiful bead appearance and good slag removal.

Uses:

Suitable for welding of 1.0%Cr-0.5%Mo high temp. steel for power plant, boilers, pressure vessel, chemical industry, etc.



Typical Chemical Composition of welding wire (%)

C	Mn	Si	P	S	Shielded Gas
0.07	1.09	0.59	0.012	0.008	C:1.27 Mo:0.52

Typical Mechanical Properties of Deposited Metal (100%CO_2)

Yield Strength ReL (Mpa)	Tensile Strength Rm(Mpa)	Elongation δ5(%)	PWHT
520	640	25	(690℃ ± 15℃) x 1h

Reference Current (DC+)

Wire Diameter (mm)		Φ1.2	Φ1.4	Φ1.6
Current Range (A)	F	120~280	150~300	180~320
	H	120~260	150~280	180~300
	VU OH	120~240	150~260	180~280
	VD	200~260	220~280	250~300

Packing terms

Diameter	1.2mm	1.6mm	2.0mm
Plastic spool 1kg D100mm			
Plastic spool 5kg D200mm	√	√	√
Plastic spool 15kg D270mm	√	√	√

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FLUX CORED WIRE
(Heat Resisting Steel FCW)
SZE-YT91B3

AWS A5.29 E91T-B3C
GB/T 17493 E621T1-B3C
JIS Z3318 YF2CM-C
EN ISO 17634-B T62 Z T1-1C-2CM

Introduction:

SZE-YT91B3 is a kind of Titania type flux-cored welding wire for heat-resistant steel. It has excellent welding performance, fewer spatters, stable arc, good slag detach-ability, beautiful appearance of weld and high welding efficiency.

Uses:

Suitable for welding 2.25%Cr-1%Mo steel below 520℃.



Typical Chemical Composition of welding wire (%)

C	Mn	Si	P	S	Shielded Gas
0.05	1.05	0.35	0.018	0.011	C:2.25 Mo:1.01

Typical Mechanical Properties of Deposited Metal (100%CO_2)

Yield Strength ReL (Mpa)	Tensile Strength Rm(Mpa)	Elongation δ5(%)	PWHT
590	680	23	(690℃±15℃) x 1h

Reference Current (DC+)

Wire Diameter (mm)		Φ1.2	Φ1.4	Φ1.6
Current Range (A)	F	120~300	150~380	180~430
	H	120~280	150~320	180~380
	VU OH	120~260	150~270	180~280
	VD	200~280	220~320	250~330

Packing terms

Diameter	1.2mm	1.4mm	1.6mm
Plastic spool 1kg D100mm			
Plastic spool 5kg D200mm	√	√	√
Plastic spool 15kg D270mm	√	√	√

FLUX CORED WIRE
(Low Temp. service Steel FCW)
SZE-YT81Ni1

AWS A5.29 E8IT- Ni1C
GB/T 17493 E551T1- Ni1C
JIS Z3313 YFW-C602R
EN ISO 17632-B T55 3 T1-1CA-N2

Introduction:

SZE-YT81Ni1 is a Titania type flux cored wire for all-position welding and be used for welding of 560N/mm2 class aluminum-killed steel for low temperature service. The weld metal contains about 1%Ni and maintain good impact value(as welded) at low temperatures down to -30℃. Arc is stable, low spatter generation, beautiful bead appearance and good slag removal.

Uses:

Used for welding structures made of 590MPa low-alloy high strength steel. Widely used for welding some key structures like hoisting machinery, bridges, storage tanks, steel-frame structures, etc.



Typical Chemical Composition of welding wire (%)

C	Mn	Si	P	S	Other
0.05	1.05	0.35	0.018	0.011	Ni:1.03 Mo:0.12

Typical Mechanical Properties of Deposited Metal (100%CO_2)

Yield Strength ReL (Mpa)	Tensile Strength Rm(Mpa)	Elongation δ5(%)	Impact test	
			Temperature (℃)	Impact Energy KV_2(J)
520	610	24	-30℃	110

Reference Current (DC+)

Wire Diameter (mm)		Φ1.2	Φ1.4	Φ1.6
Current Range (A)	F	120~300	150~380	180~430
	H	120~280	150~320	180~380
	VU OH	120~260	150~260	180~280
	VD	200~260	220~280	250~330

Packing terms

Diameter	1.2mm	1.4mm	1.6mm
Plastic spool 1kg D100mm			
Plastic spool 5kg D200mm	√	√	√
Plastic spool 15kg D270mm	√	√	√

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FLUX CORED WIRE
(Low Temp. service Steel FCW)
SZE-YT81Ni2

AWS A5.29 E81T- Ni2C
GB/T 17493 E551T1- Ni2C
JIS Z3313 T57 4 T1-1CA-N5-U
EN ISO 17632-B T55 4 T1-1CA-N5

Introduction:

SZE-YT81Ni2 is a kind of Titania type CO_2 gas-shielded flux-cored welding wire. It has excellent welding performance, soft and stable arc, fewer spatters, good slag detachability and beautiful appearance of weld. All-position welding. The weld metal has been given toughening treatment by microelements, so it has excellent low temperature toughness above -40℃ and good crack-resistance.



Uses:

Used for welding structures made of 550MPa low-alloy high strength steel. Widely used for welding some key structures like hoisting machinery, bridges, storage tanks, steel-frame structures, etc.

Typical Chemical Composition of welding wire (%)

C	Mn	Si	P	S	Shielded Gas
0.05	1.05	0.40	0.015	0.010	Ni:2.25

Typical Mechanical Properties of Deposited Metal (100%CO_2)

Yield Strength ReL (Mpa)	Tensile Strength Rm(Mpa)	Elongation δ5(%)	Impact test	
			Temperature (℃)	Impact Energy KV_2(J)
550	625	24	-40℃	96

Reference Current (DC+)

Wire Diameter (mm)		Φ1.2	Φ1.4	Φ1.6
Current Range (A)	F	120~300	150~380	180~430
	H	120~280	150~320	180~380
	VU OH	120~240	150~260	180~280
	VD	200~260	220~280	250~330

Packing terms

Diameter	1.2mm	1.4mm	1.6mm
Plastic spool 1kg D100mm			
Plastic spool 5kg D200mm	√	√	√
Plastic spool 15kg D270mm	√	√	√

FLUX CORED WIRE
(Low Temp. service Steel FCW)
SZE-YT81K2

AWS A5.20 E81T1-K2C
GB/T17493 E551T1-K2C
JIS Z3313 YFL-C506R
EN ISO 17632-B T55 6 T1-1CA-N3-U

Introduction:

SZE-YT81K2 is a kind of Titania type CO_2 gas-shielded flux-cored wire be used for all positions. It has excellent welding performance, soft and stable arc, fewer spatters, good slag detachability and beautiful appearance of weld. The weld metal has been given toughening treatment by microelements, so it has excellent low temperature toughness above -30℃ and good crack-resistance.



Uses:

Used for welding structures made of 550MPa low-alloy high strength steel. Widely used for welding some key structures like hoisting machinery, bridges, storage tanks, steel-frame structures, etc.

Typical Chemical Composition of welding wire (%)

C	Mn	Si	P	S	Other
0.04	1.35	0.35	0.016	0.011	Ni: 1.55

Typical Mechanical Properties of Deposited Metal (100%CO_2)

Yield Strength ReL (Mpa)	Tensile Strength Rm(Mpa)	Elongation δ5(%)	Impact test	
			Temperature (℃)	Impact Energy KV_2(J)
540	620	26	-30℃	110

Reference Current (DC+)

Wire Diameter (mm)		Φ1.2	Φ1.4	Φ1.6
Current Range (A)	F	120~300	150~380	180~430
	H	120~280	150~320	180~380
	VU OH	120~240	150~260	180~280
	VD	200~260	220~280	250~300

Packing terms	1.2mm	1.4mm	1.6mm
Plastic spool 1kg D100mm			
Plastic spool 5kg D200mm	√	√	√
Plastic spool 15kg D270mm	√	√	√

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FLUX CORED WIRE
(Atmospheric Corrosion Resisting Steel FCW)
SZE-YT81W2

AWS A5.29 E81T1-W2C
GB/T17493 E551T1-W2C
JIS Z3320 YFA-58W
EN ISO 17632-B T55 3 T1-1CA-NCC

Introduction:

SZE-YT81W2 is a Titania type flux cored wire for all-position welding and be used for welding of high strength weather-proof steel. Arc is stable, low spatter generation, beautiful bead appearance and good slag removal. The weld-metal contains Cr, Ni, Cu and makes excellent weather-proof properties and crack resistance.



Uses:

Used for welding 550MPa atmospheric corrosion-resistant steel structures, such as railway locomotive vehicles, offshore engineering, bridges, etc.

Typical Chemical Composition of welding wire (%)

C	Mn	Si	P	S	Other
0.05	1.14	0.40	0.016	0.014	Cu: 0.38 Ni: 0.45 Cr: 0.50

Typical Mechanical Properties of Deposited Metal ($100\%CO_2$)

Yield Strength ReL (Mpa)	Tensile Strength Rm(Mpa)	Elongation δ5(%)	Impact test	
			Temperature (℃)	Impact Energy KV_2(J)
540	610	27	-30℃	90

Reference Current (DC+)

Wire Diameter (mm)		Φ1.2	Φ1.4	Φ1.6
Current Range (A)	F	120~300	150~380	180~430
	H	120~280	150~320	180~380
	VU OH	120~240	150~260	180~280
	VD	200~260	220~280	250~300

Packing terms	1.2mm	1.4mm	1.6mm
Plastic spool 1kg D100mm			
Plastic spool 5kg D200mm	√	√	√
Plastic spool 15kg D270mm	√	√	√

FLUX CORED WIRE
(Stainless Steel FCW)
SZE-YS308L

AWS A5.22 E308LT1-1
GB/T17853 E308LT1-1
JIS Z3323 YF308LC
EN ISO 17633-B TS308L-FB1

Introduction:

SZE-YS308L is a kind of stainless steel gas-shielded flux-cored welding wire. It has soft and stable arc, fewer spatters, beautiful appearance of weld, good slag detach-ability and excellent welding performance. All position welding. The deposited metal has excellent mechanical properties and intercrystalline corrosion-resistance.



Uses:

Used for welding corrosion-resistant 0Cr19Ni9 and 0Cr19Ni11Ti stainless steel structures below 300℃. Used for welding some stainless steel materials like 301, 302, 304, 304L, 308, 308L, etc.

Typical Chemical Composition of welding wire (%)

C	Mn	Si	P	S	Other
0.03	1.40	0.42	0.020	0.005	Cr: 20.05 Ni: 9.98

Typical Mechanical Properties of Deposited Metal ($100\%CO_2$)

Yield Strength ReL (Mpa)	Tensile Strength Rm(Mpa)	Elongation δ5(%)	Impact test	
			Temperature (℃)	Impact Energy KV_2(J)
-	560	42	-	-

Reference Current (DC+)

Wire Diameter (mm)	1.0	1.2	1.4	1.6
Welding Current(A)	80~160	120~250	140~280	160~300
Welding Voltage(V)	22~28	24~30	24~31	24~32

Packing terms	0.8mm	0.9mm	1.0mm	1.2mm	1.6mm
Plastic spool 1kg D100mm	√	√	√		
Plastic spool 5kg D200mm	√	√	√	√	√
Plastic spool 15kg D270mm	√	√	√	√	√

SZESHANG

FLUX CORED WIRE
(Stainless steel FCW)
SZE-YS309L

AWS A5.22 E309LT1-1
GB/T17853 E309LT1-1
JIS Z3323 YF309LC
EN ISO 17633-B TS309L-FB1

Introduction:

SZE-YS309L is a kind of stainless steel gas-shielded flux-cored welding wire. It has soft and stable arc, fewer spatters, beautiful appearance of weld, good slag detach-ability and excellent welding performance. All-position welding. The deposited metal has excellent crack-resistance.

Uses:

Used for stainless steel structures of the same types, composite steel, dissimilar steel, etc. in the production of equipment of synthetic fiber, petrochemical industry, etc., and also used for surfacing welding on nuclear-reactors and transition layers of pressure vessel inner surfaces and welding inner parts of synthesis towers.



Typical Chemical Composition of welding wire (%)

C	Mn	Si	P	S	Other
0.03	1.56	0.45	0.022	0.008	Cr: 24.50 Ni: 12.85

Typical Mechanical Properties of Deposited Metal (100%CO_2)

Yield Strength ReL (Mpa)	Tensile Strength Rm(Mpa)	Elongation δ5(%)	Impact test	
			Temperature (°C)	Impact Energy KV_2(J)
-	590	38	-	-

Packing terms

Diameter	0.8mm	0.9mm	1.0mm	1.2mm	1.6mm
Plastic spool 1kg D100mm	√	√	√		
Plastic spool 5kg D200mm	√	√	√	√	
Plastic spool 15kg D270mm	√	√	√	√	√

FLUX CORED WIRE
(Stainless steel FCW)
SZE-YS316L

AWS A5.22 E316LT1-1
GB/T17853 E316LT1-1
JIS Z3323 YF316LC
EN ISO 17633-B TS316L-FB1

Introduction:

SZE-YT316LT1-1 is a kind of stainless asteel gas-shielded flux-cored welding wire. It has excellent welding performance. All-position welding. The deposited metal has excellent heat-resistance, corrosion-resistance and crack-resistance.

Uses:

Used for welding ultra-low-carbon 00Cr18Ni12Mo3 stainless steel, and also used for welding Cr stainless steel which does not need heat treatment after welding, composite steel and dissimilar steel.



Typical Chemical Composition of welding wire (%)

C	Mn	Si	P	S	Other
0.03	1.35	0.55	0.025	0.010	Cr: 18.560 Ni: 12.750 Mo: 2.280

Typical Mechanical Properties of Deposited Metal (100%CO_2)

Yield Strength ReL (Mpa)	Tensile Strength Rm(Mpa)	Elongation δ5(%)	Impact test	
			Temperature (°C)	Impact Energy KV_2(J)
-	580	45	-	-

Packing terms

Diameter	0.8mm	0.9mm	1.0mm	1.2mm	1.6mm
Plastic spool 1kg D100mm	√	√	√		
Plastic spool 5kg D200mm	√	√	√	√	√
Plastic spool 15kg D270mm	√	√	√	√	√

SZESHANG

FLUX CORED WIRE
(Gas shielded FCW for hardfacing)
SZE-YD132

Introduction:

It is a kind of Titania type CO_2 gas-shielded flux-cored welding wire used for surfacing welding. SZE-YD132 is a kind of CrMo type CO_2 gas-shielded flux-cored welding wire used for surfacing welding. It has stable arc in surfacing welding and good slag detachability.

Uses:

Suitable for the situation of impact-resistance and medium wear. Used for repairing the surfaces of low-carbon steel, mediumcarbon steel or low-alloy steel parts, such as the surfacing welding and repairing of mining machinery and agricultural machinery.



Typical Chemical Composition of welding wire (%)		
C	Mo	Cr
≤0.50	≤1.50	≤3.00

Hardness of Surfacing Layer: HRC≥230

Reference Current (DC+)			
Wire Diameter (mm)	1.2	1.4	1.6
Welding Current(A)	180~220	200~260	220~300

Packing terms			
Diameter	1.2mm	1.4mm	1.6mm
Plastic spool 5kg D200mm	√	√	√
Plastic spool 15kg D270mm	√	√	√

FLUX CORED WIRE
(Gas shielded FCW for hardfacing)
SZE-YD172

Introduction:

It is a kind of Titania type CO_2 gas-shielded flux-cored welding wire used for surfacing welding. SZE-YD172 is a kind of CrMo type CO_2 gas-shielded flux-cored welding wire used for surfacing welding. It has stable arc in surfacing welding and good slag detachability.

Uses:

Suitable for the situation of impact-resistance and medium wear. Used for surfacing welding on some worn-out gears, dredge buckets, tractor blades, deep digging blade ploughs, mining machinery, etc.



Typical Chemical Composition of welding wire (%)		
C	Mo	Cr
≤0.50	≤2.50	≤2.50

Hardness of Surfacing Layer: HRC≥40

Reference Current (DC+)			
Wire Diameter (mm)	1.2	1.4	1.6
Welding Current(A)	180~220	200~260	220~300

Packing terms			
Diameter	1.2mm	1.4mm	1.6mm
Plastic spool 5kg D200mm	√	√	√
Plastic spool 15kg D270mm	√	√	√

SZESHANG

FLUX CORED WIRE
(Gas shielded FCW for hardfacing)
SZE-YD212

Introduction:

It is a CO_2 gas shielded hardfacing flux cored wire and be used for welding of single or multi-pass for damaged parts surface, such as gear, dredger bucket, mining machines, etc.Arc is stable, low spatter generation and good slag removal.

Uses:

The product is used for single-layer or multi-layer surfacing of various damaged machine parts, such as: digging bucket, mining machinery, gear and so on.



Typical Chemical Composition of welding wire (%)		
C	Mo	Cr
0.43	2.32	4.46

Hardness of Surfacing Layer: HRC≥50

Reference Current (DC+)			
Wire Diameter (mm)	1.2	1.4	1.6
Welding Current(A)	180~220	200~260	220~300

Packing terms			
Diameter	1.2mm	1.4mm	1.6mm
Plastic spool 5kg D200mm	√	√	√
Plastic spool 15kg D270mm	√	√	√

STAINLESS STEEL WELDING WIRE
SZE-ER308L

AWS A5.9 ER308L
BS EN ISO 143-43-8-SS308L
JIS Z3321 Y308L
GB 4241/2 H03Cr21Ni10Si1

Introduction:

The main ingredient of SZE-ER308L is ultra C-18Cr-8Ni, is the most widely used austenitic stainless steel MIG welding materials, can be used for all-position welding. It has excellent welding performance, smooth and beautiful bead and fewer spatters, deposited metal contain Ferritic, good performance on crack resistance and corrosion resistance.

Uses:

Widely used for welding petrochemical, pressure vessels, food machinery, medical equipment, fertilizer equipment, textile machinery, nuclear reactors, such as welding 022Cr19Ni10 (SUS 304L) and other materials.



Typical Chemical Composition of welding wire (%)						
C	Mn	Si	Cr	Ni	Mo	other
0.023	1.63	0.40	20.12	10.35	0.37	P:0.013 S:0.009

Size and recommended current range			
Diameter(mm)	0.8	1.0	1.2
Welding Current(A)	70-150	100-200	140-220

Packing term						
Diameter	0.8mm	0.9mm	1.0mm	1.2mm	1.6mm	2.0mm
Plastic spool 1kg D100mm	√	√	√	√		
Plastic spool 5kg D200mm	√	√	√	√	√	
Plastic spool 15kg D270mm	√	√	√	√	√	√
Metal basket 15kg K300mm	√	√	√	√	√	√

Packing term						
Diameter	1.2mm	1.6mm	2.0mm	2.4mm	3.2mm	4.0mm
TIG/1000mm x 5kg/tube	√	√	√	√	√	√
TIG/1000mm x 10kg/tube	√	√	√	√	√	√

SZESHANG

STAINLESS STEEL WELDING WIRE
SZE-ER308LSi

AWS A5.9 ER308LSi
BS EN ISO 143-43-B-85308LSi
JIS Z3321 Y308LSi
GB 4241/2 H03Cr21Ni10Si1

Introduction:

The main ingredient of SZE-ER308LSi is ultra C-18Cr-8Ni, austenitic stainless steel MIG welding material widely used, can be used for all-position welding. By the addition of Si. the molten iron flow very well, thus forming more beautiful bead, feeding smooth, stable arc, fewer spatter.



Uses:

Widely used for welding petrochemical, pressure vessels, food machinery ,medical equipment, fertilizers and other related industries, such as welding 022Cr19Ni10 (SUS 304L) and other materials.

Typical Chemical Composition of welding wire (%)

C	Mn	Si	Cr	Ni	Mo	other
0.023	2.20	0.75	19.82	10.54	0.36	P:0.018
						S:0.011

Size and recommended current range

Diameter(mm)	0.8	1.0	1.2
Welding Current(A)	70-150	100-200	140-220

Packing term

Diameter	0.8mm	0.9mm	1.0mm	1.2mm	1.6mm	2.0mm
Plastic spool 1kg D100mm	√	√	√	√		
Plastic spool 5kg D200mm	√	√	√	√	√	
Plastic spool 15kg D270mm	√	√	√	√	√	√
Metal basket 15kg K300mm	√	√	√	√	√	√

Packing term

Diameter	1.2mm	1.6mm	2.0mm	2.4mm	3.2mm	4.0mm
TIG/1000mm x 5kg/tube	√	√	√	√	√	√
TIG/1000mm x 10kg/tube	√	√	√	√	√	√

STAINLESS STEEL WELDING WIRE
SZE-ER309L

AWS A5.9 ER309L
BS EN ISO 143-43-B-SS309L
JIS Z3321 Y309L
GB 4241/2 H03Cr24Ni13Si

Introduction:

The main ingredient of SZE-ER309L is C-22Cr-12Ni, stainless steel MIG wire, can be used for all-position welding. It has excellent welding performance, smooth and beautiful bead and fewer spatters, deposited metal contain Ferritic, has good performance on crack resistance and corrosion resistance. due to the high content of the alloy, so have good performance of temperature resistance.



Uses:

Used for welding carbon steel and stainless steel dissimilar materials , petrochemical industry such as the reaction vessel wall cladding transition metal or applied to poor toughness martensite, ferritic stainless steel .

Typical Chemical Composition of welding wire (%)

C	Mn	Si	Cr	Ni	Mo	other
0.021	0.95	0.34	23.90	12.92	0.39	P:0.012
						S:0.008

Size and recommended current range

Diameter(mm)	0.8	1.0	1.2
Welding Current(A)	70-150	100-200	140-220

Packing term

Diameter	0.8mm	0.9mm	1.0mm	1.2mm	1.6mm	2.0mm
Plastic spool 1kg D100mm	√	√	√	√		
Plastic spool 5kg D200mm	√	√	√	√	√	
Plastic spool 15kg D270mm	√	√	√	√	√	√
Metal basket 15kg K300mm	√	√	√	√	√	√

Packing term

Diameter	1.2mm	1.6mm	2.0mm	2.4mm	3.2mm	4.0mm
TIG/1000mm x 5kg/tube	√	√	√	√	√	√
TIG/1000mm x 10kg/tube	√	√	√	√	√	√

SZESHANG

STAINLESS STEEL WELDING WIRE

SZE-ER309LSi

AWS A5.9 ER309LSi
BS EN ISO 143-43-B-SS309LSi
JIS Z3321 Y309LSi
GB 4241/2 H03Cr24Ni13Si1

Introduction:

The main ingredient of SZE-ER309LSi is C-23Cr-13Ni, stainless steel MIG wire, can be used for all-position welding. It has excellent welding performance, smooth and beautiful bead and fewer spatters, By the addition of Si, the molten iron flow very well, due to the low carbon content, so have good perfo-rmance of corrosion resistance.



Uses:

Used for welding carbon steel and stainless steel dissimilar materials ,petrochemical industry such as transition metal container wall cladding or applied to poor toughness martensite, ferritic stainless steel .

Typical Chemical Composition of welding wire (%)						
C	Mn	Si	Cr	Ni	Mo	other
0.021	2.33	0.78	23.93	13.8	0.46	P: 0.012
						S: 0.014

Size and recommended current range			
Diameter(mm)	0.8	1.0	1.2
Welding Current(A)	70-150	100-200	140-220

Packing term						
Diameter	0.8mm	0.9mm	1.0mm	1.2mm	1.6mm	2.0mm
Plastic spool 1kg D100mm	√	√	√	√		
Plastic spool 5kg D200mm	√	√	√	√	√	
Plastic spool 15kg D270mm	√	√	√	√	√	√
Metal basket 15kg K300mm	√	√	√	√	√	√

Packing term						
Diameter	1.2mm	1.6mm	2.0mm	2.4mm	3.2mm	4.0mm
TIG/1000mm x 5kg/tube	√	√	√	√	√	√
TIG1000mm x 10kg/tube	√	√	√	√	√	√

STAINLESS STEEL WELDING WIRE

SZE-ER316L

AWS A5.9 ER316L
BS EN ISO 143-43-B-SS316L
JIS Z3321 Y316L
GB 4241/2 H03Cr19Ni12Mo2Si

Introduction:

The main ingredient of SZE-ER316L is C-18Cr-12Ni-2Mo, stainless steel MIG wire, can be used for all-position welding. It has excellent welding performance, smooth and beautiful bead and fewer spatters. Because it contains Mo, so have good corrosion resistance for acetic acid, sulfurous acid, phosphoric acid and salts.



Uses:

Often used for welding petrochemical, fertilizer equipment, such as 022Cr17Ni12Mo2(SUS 316L) and other materials .

Typical Chemical Composition of welding wire (%)						
C	Mn	Si	Cr	Ni	Mo	other
0.023	1.90	0.42	19.12	12.59	2.59	P: 0.009
						S: 0.008

Size and recommended current range			
Diameter(mm)	0.8	1.0	1.2
Welding Current(A)	70-150	100-200	140-220

Packing term						
Diameter	0.8mm	0.9mm	1.0mm	1.2mm	1.6mm	2.0mm
Plastic spool 1kg D100mm	√	√	√	√		
Plastic spool 5kg D200mm	√	√	√	√	√	√
Plastic spool 15kg D270mm	√	√	√	√	√	√
Metal basket 15kg K300mm	√	√	√	√	√	√

Packing term						
Diameter	1.2mm	1.6mm	2.0mm	2.4mm	3.2mm	4.0mm
TIG/1000mm x 5kg/tube	√	√	√	√	√	√
TIG1000mm x 10kg/tube	√	√	√	√	√	√

SZESHANG

STAINLESS STEEL WELDING WIRE
SZE-ER316Li

AWS A5.9 ER316LSi
BS EN ISO 143-43-B-SS316LSi
JIS Z3321 Y316LSi
GB 4241/2 H08Cr19Ni12Mo2Si

Introduction:

SZE-ER316LSi is stainless steel MIG wire, can be used for all-position welding. It has excellent welding performance, smooth and beautiful bead and fewer spatters. By the addition of Si, the molten iron flow very well, due to the low carbon content, So have good performance of corrosion resistance.



Uses:

Often used for welding petrochemical, fertilizer equipment and other materials. For the welding of same type of stainless steel and composite steel, has good corrosion resistance, such as 00Cr17Ni14Mo2 (SUS316L).

Typical Chemical Composition of welding wire (%)						
C	Mn	Si	Cr	Ni	Mo	other
0.024	1.61	0.73	18.72	11.54	2.31	P: 0.011
						S: 0.010

Size and recommended current range			
Diameter(mm)	0.8	1.0	1.2
Welding Current(A)	70-150	100-200	140-220

Packing term						
Diameter	0.8mm	0.9mm	1.0mm	1.2mm	1.6mm	2.0mm
Plastic spool 1kg D100mm	√	√	√	√		
Plastic spool 5kg D200mm	√	√	√	√	√	
Plastic spool 15kg D270mm	√	√	√	√	√	√
Metal basket 15kg K300mm	√	√	√	√	√	√

Packing term						
Diameter	1.2mm	1.6mm	2.0mm	2.4mm	3.2mm	4.0mm
TIG/1000mm x 5kg/tube	√	√	√	√	√	√
TIG1000mm x 10kg/tube	√	√	√	√	√	√

STAINLESS STEEL WELDING WIRE
SZE-ER321

AWS A5.9 ER321
BS EN ISO 143-43-B-SS321
JIS Z3321 Y321
GB 4241/2 H08Cr19Ni10Ti

Introduction:

The main ingredient of SZE-ER321 is 18Cr-8Ni-Ti, stainless steel MIG wire, can be used for all-position welding. Adding Ti based on the SUS308, can effectively improve the corrosion resistance, especially to improve the resistance to grain boundary corrosion. It has excellent welding performance, smooth and beautiful bead and fewer spatters.



Uses:

Often used for welding food machinery, medical equipment, pressure vessel, petrochemical and other occasions, such as 07Cr19Ni11Ti (SUS 321).

Typical Chemical Composition of welding wire (%)						
C	Mn	Si	Cr	Ni	Mo	other
0.028	1.54	0.47	19.60	9.76	0.42	P: 0.011
						S: 0.009
						Ti:0.58

Size and recommended current range			
Diameter(mm)	0.8	1.0	1.2
Welding Current(A)	70-150	100-200	140-220

Packing term						
Diameter	0.8mm	0.9mm	1.0mm	1.2mm	1.6mm	2.0mm
Plastic spool 1kg D100 mm	√	√	√	√		
Plastic spool 5kg D200mm	√	√	√	√	√	
Plastic spool 15kg D270mm	√	√	√	√	√	√
Metal basket 15kg K300mm	√	√	√	√	√	√

Packing term						
Diameter	1.2mm	1.6mm	2.0mm	2.4mm	3.2mm	4.0mm
TIG/1000mm x 5kg/tube	√	√	√	√	√	√
TIG1000mm x 10kg/tube	√	√	√	√	√	√

SZESHANG

STAINLESS STEEL WELDING WIRE
SZE-ER347

AWS A5.9 ER347
BS EN ISO 143-43-B-SS347
JIS Z3321 Y347
GB 4241/2 H08Cr20Ni10Nb

Introduction:

The main ingredient of SZE-ER347 is 19Cr-11Ni-Nb, stainless steel MIG wire, can be used for all-position welding. Adding Nb based on the SUS308, can effectively improve the corrosion resistance, especially to improve the resistance to grain boundary corrosion. It has excellent welding performance, smooth and beautiful bead and fewer spatters.

Uses:

Often used for welding food machinery, medical equipment, pressure vessel, petrochemical and other occasions, such as 07Cr19Ni11Ti (SUS 321), 07Cr18Ni11Nb (SUS 347).



Typical Chemical Composition of welding wire (%)						
C	Mn	Si	Cr	Ni	Mo	other
0.027	1.80	0.40	20.39	9.92	0.33	P: 0.015
						S: 0.012
						Mo: 0.44

Size and recommended current range			
Diameter(mm)	0.8	1.0	1.2
Welding Current(A)	70-150	100-200	140-220

Packing term						
Diameter	0.8mm	0.9mm	1.0mm	1.2mm	1.6mm	2.0mm
Plastic spool 1kg D100mm	√	√	√	√		
Plastic spool 5kg D200mm	√	√	√	√	√	
Plastic spool 15kg D270mm	√	√	√	√	√	√
Metal basket 15kg K300mm	√	√	√	√	√	√

Packing term						
Diameter	1.2mm	1.6mm	2.0mm	2.4mm	3.2mm	4.0mm
TIG/1000mm x 5kg/tube	√	√	√	√	√	√
TIG1000mm x 10kg/tube	√	√	√	√	√	√

STAINLESS STEEL WELDING WIRE
SZE-ER410

AWS A5.9 ER410
BS EN ISO 143-43-B-SS410
JIS Z3321 Y410
GB 4241/2 H12Cr13

Introduction:

The main ingredient of SZE-ER410 is 13Cr, martensitic stainless steel MIG wire, can be used for all-position welding.It has excellent welding performance, smooth and beautiful bead and fewer spatters.

Uses:

Often used for hydro-power stations as well as valves and other wear and corrosion applications, such as 12Cr13 (SUS410).



Typical Chemical Composition of welding wire (%)						
C	Mn	Si	Cr	Ni	Mo	other
0.080	0.41	0.30	11.83	0.19	0.33	P: 0.021
						S: 0.011
						Mo: 0.35

Size and recommended current range			
Diameter(mm)	0.8	1.0	1.2
Welding Current(A)	70-150	100-200	140-220

Packing term						
Diameter	0.8mm	0.9mm	1.0mm	1.2mm	1.6mm	2.0mm
Plastic spool 1kg D100mm	√	√	√	√		
Plastic spool 5kg D200mm	√	√	√	√	√	
Plastic spool 15kg D270mm	√	√	√	√	√	√
Metal basket 15kg K300mm	√	√	√	√	√	√

Packing term						
Diameter	1.2mm	1.6mm	2.0mm	2.4mm	3.2mm	4.0mm
TIG/1000mm x 5kg/tube	√	√	√	√	√	√
TIG1000mm x 10kg/tube	√	√	√	√	√	√

SZESHANG

STAINLESS STEEL WELDING WIRE

SZE-ER430

AWS A5.9 ER430
BS EN ISO 143-43-B-SS430
JIS Z3321 Y430
GB 4241/2 H10Cr14

Introduction:

The main ingredient of SZE-ER430 is 17Cr, Ferritic stainless steel MIG wire, can be used for all-position welding. It has excellent welding performance, smooth and beautiful bead and fewer spatters.

Uses:

Often used for welding corrosion component, such as 10Cr17 (SUS 430) material devices, fence, golf class.



Typical Chemical Composition of welding wire (%)						
C	Mn	Si	Cr	Ni	Mo	other
0.035	0.43	0.35	16.39	0.22	0.21	P: 0.018 S: 0.012 Mo: 0.55

Size and recommended current range			
Diameter(mm)	0.8	1.0	1.2
Welding Current(A)	70-150	100-200	140-220

Packing term						
Diameter	0.8mm	0.9mm	1.0mm	1.2mm	1.6mm	2.0mm
Plastic spool 1kg D100mm	√	√	√	√		
Plastic spool 5kg D200mm	√	√	√	√	√	
Plastic spool 15kg D270mm	√	√	√	√	√	√
Metal basket 15kg K300mm	√	√	√	√	√	√

Packing term						
Diameter	1.2mm	1.6mm	2.0mm	2.4mm	3.2mm	4.0mm
TIG/1000mm x 5kg/tube	√	√	√	√	√	√
TIG1000mm x 10kg/tube	√	√	√	√	√	√

WELDING ELECTRODE

SZE-J421

AWS A5.1 E6013
ISO 2560-A-E350 RA 12
GB/T 5117 E4313

Introduction:

SZE-E6013 is a kind of carbon steel electrode with Titania type coating.AC/DC. All-position welding. It has excellent welding performance, excellent operating performance, easy reignition, stable arc and beautiful appearance of weld.

Uses:

For welding low-carbon steel structures, especially suitable for welding on thin plates and cosmetic welding which requires the weld beads to be beautiful and glossy.



Typical Chemical Composition of welding wire (%)						
C	Mn	Si	S	P	Ni	other
0.079	0.38	0.21	0.018	0.024	0.020	Cr 0.032 Mo 0.005 V 0.010

Typical Mechanical Properties of Deposited Metal				
Yield Strength ReL(Mpa)	Tensile Strength Rm(Mpa)	Elongation δ_5 (%)	Impact test	
			Temperature (°C)	Impact Energy KV_2(J)
380	485	28.5	0	86

Size and recommended current range					
Diameter (mm)	2.0	2.5	3.2	4.0	5.0mm
Welding Current (A)	40-70	50-90	90-130	130-210	170-230

SZESHANG

WELDING ELECTRODE
SZE-E6013X

AWS A5.1 E6013
ISO 2560-B-E4343 A
GB/T 5117 E4313

Introduction:
SZE-E6013X is a Rutile type electrode.Can be welding by both AC&DC power source and can be for all-position.(especially for vertical-down position).It has excellent welding performance as stable arc,little spatter easy slag removal and reignition-ability etc.

Uses:
It is suitable for welding for low carbon steel structure, especially for the welding of the thin plate steel with short discontinuous weld and vertical-down.



Typical Chemical Composition of welding wire (%)

C	Mn	Si	S	P	Ni	other
0.079	0.40	0.20	0.020	0.024	0.020	Cr 0.030 Mo 0.006 V 0.003

Typical Mechanical Properties of Deposited Metal

Yield Strength ReL(Mpa)	Tensile Strength Rm(Mpa)	Elongation δs(%)	Impact test	
			Temperature (℃)	Impact Energy KV_2(J)
440	500	24	0	87

Size and recommended current range

Diameter (mm)	2.0	2.5	3.2	4.0	5.0mm
Welding Current (A)	40-70	50-90	90-130	130-210	170-230

WELDING ELECTRODE
SZE-J506

AWS A5.1 E7016
ISO 2560-B-E4916A
GB/T 5117 E5016

Introduction:
SZE-E7016 is basic potassium type electrode with low hydrogen.Both AC&DC can be used and can be welding for all-position.It has excellent welding performance as good arc stiffness,little spatter,easy slag removal etc.,and perfect mechanical properties of deposited metal.

Uses:
Used for welding carbon and low-alloy steel structures, such as Gr.50, etc.



Typical Chemical Composition of welding wire (%)

C	Mn	Si	S	P	Ni	other
0.07	1.10	0.35	0.012	0.019	0.030	Cr 0.035 Mo 0.005 V 0.004

Typical Mechanical Properties of Deposited Metal

Yield Strength ReL(Mpa)	Tensile Strength Rm(Mpa)	Elongation δs(%)	Impact test	
			Temperature (℃)	Impact Energy KV_2(J)
510	590	30	-30	160

Size and recommended current range

Diameter (mm)	2.0	2.5	3.2	4.0	5.0mm
Welding Current (A)	--	60-100	80-140	110-210	160-230

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WELDING ELECTRODE
SZE-J506Fe

AWS A5.1 E7018
ISO 2560-B-E4918 A
GB/T 5117 E5018

Introduction:

SZE-E7018 is a kind of carbon steel electrode with iron powder low-hydrogen natrium type coating.DCRP(Direct Current Reversed Polarity). All-position welding. The deposition efficiency is higher due to the iron powder in the coating. It has stable arc, fewer spatters, good slag detach ability and beautiful appearance of weld. The deposited metal has excellent mechanical properties.

Uses:

Used for welding carbon and low-alloy steel structures, such as Gr50, etc.



Typical Chemical Composition of welding wire (%)

C	Mn	Si	S	P	Ni	other
0.087	1.10	0.56	0.012	0.021	0.011	Cr 0.028 Mo 0.007 V 0.016

Typical Mechanical Properties of Deposited Metal

Yield Strength ReL(Mpa)	Tensile Strength Rm(Mpa)	Elongation δ_5(%)	Impact test	
			Temperature (℃)	Impact Energy KV_2(J)
480	590	28	-30	160

Size and recommended current range

Diameter (mm)	2.0	2.5	3.2	4.0	5.0mm
Welding Current (A)	--	60-100	80-140	110-210	160-230

WELDING ELECTRODE
SZE-J425

AWS A5.1 E6011
ISO 2560-B-E4311 A
GB/T 5117 E4311

Introduction:

SZE-E6011 is a rutile-cellulosic potassium type electrode.Can be welding for all-position(especially for vertical-down position) with AC and DC.It has excellent welding performance as stable arc,little spatter,easy slag removal and reignition-ability etc. Better molten pool control,stronger arc force and deeper penetration at vertical-down position.

Uses:

Used for welding low-alloy steel structures, such as pipeline, shipbuilding and bridge etc.



Typical Chemical Composition of welding wire (%)

C	Mn	Si	S	P	Ni	other
0.09	0.70	0.30	0.020	0.018	0.030	Cr 0.035 Mo 0.005 V 0.004

Typical Mechanical Properties of Deposited Metal

Yield Strength ReL(Mpa)	Tensile Strength Rm(Mpa)	Elongation δ_5(%)	Impact test	
			Temperature (℃)	Impact Energy KV_2(J)
460	550	25	-30	45

Size and recommended current range

Diameter (mm)	2.0	2.5	3.2	4.0	5.0mm
Welding Current (A)	--	60-100	80-140	110-210	160-230

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WELDING ELECTRODE
SZE- J425G

AWS A5.1 E6010
ISO 2560-B-E4310 A
GB/T 5117 E4310

Introduction:
SZE- E6010 is a rutile-cellulosic sodium type electrode.Can be welding for all-position(especially for vertical-down position) with DC.It has excellent welding performance as stable arc,little spatter,easy slag removal and reignition-ability etc.Better molten pool control,stronger arc force and deeper penetration at vertical-down position.



Uses:
Used for welding low-alloy steel structures, such as pipeline, shipbuilding and bridge etc.

Typical Chemical Composition of welding wire (%)

C	Mn	Si	S	P	Ni	other
0.09	0.42	0.15	0.010	0.010	0.030	Cr 0.035 Mo 0.005 V 0.004

Typical Mechanical Properties of Deposited Metal

Yield Strength ReL(Mpa)	Tensile Strength Rm(Mpa)	Elongation δs(%)	Impact test	
			Temperature (℃)	Impact Energy KV_2(J)
400	475	26	-30	42

Size and recommended current range

Diameter (mm)	2.0	2.5	3.2	4.0	5.0mm
Welding Current (A)	--	60-100	80-140	110-210	160-230

WELDING ELECTRODE
SZE-A002

AWS A5.4 E308L-16
GB/T E308L-16

Introduction:
SZE-A002 is a kind of ultra-low-carbon Cr19Ni10 stainless steel electrode with lime-Titania type coating. The carbon content of the deposited metal is lower than or equal to 0.04%. It has excellent inter-crystalline corrosion-resistance and welding performance. The coating has red-resistance, high strength and good blowhole-resistance.AC/DC.



Uses:
Used for welding ultra-low-carbon Cr19Ni10 stainless steel structures, and also used for 0Cr19Ni11Ti corrosion-resistant stainless steel structures whose working temperature is lower than 300℃. Mainly used for the production of equipment of synthetic fiber, chemical fertilizers, petroleum, etc.

Typical Chemical Composition of welding wire (%)

C	Mn	Si	S	P	Cr	Ni	Mo	Cu
0.024	1.30	0.62	0.008	0.020	19.90	9.80	0.040	0.035

Typical Mechanical Properties of Deposited Metal

Yield Strength ReL(Mpa)	Tensile Strength Rm(Mpa)	Elongation δs(%)	Impact test	
			Temperature (℃)	Impact Energy KV_2(J)
--	580	45	--	--

Size and recommended current range

Diameter (mm)	2.0	2.5	3.2	4.0	5.0mm
Welding Current (A)	40-80	50-100	70-130	100-160	140-200

SZESHANG

WELDING ELECTRODE
SZE-A062

AWS A5.4 E309L-16
GB/T E309L-16

Introduction:

SZE-A062 is a kind of ultra-low-carbon Cr23Ni13 stainless steel electrode with lime-Tita-nia type coating.AC/DC. Due to the low carbon content, it can still resist inter-crystalline corrosion led to by carbide precipitation without any stabilizers like Nb, Ti, etc.



Uses:

Used for stainless steel structures of the same types, composite steel, dissimilar steel, etc. in the production of equipment of synthetic fiber, petrochemical industry, etc., and also used for surfacing welding on nuclear reactors and transition layers of pressure vessel inner surfaces and welding inner parts of synthesis towers.

Typical Chemical Composition of welding wire (%)

C	Mn	Si	S	P	Cr	Ni	Mo	Cu
0.024	1.32	0.65	0.007	0.021	23.30	12.90	0.045	0.035

Typical Mechanical Properties of Deposited Metal

Yield Strength ReL(Mpa)	Tensile Strength Rm(Mpa)	Elongation δs(%)	Impact test	
			Temperature (°C)	Impact Energy KV_2(J)
--	560	42	--	--

Size and recommended current range

Diameter (mm)	2.0	2.5	3.2	4.0	5.0mm
Welding Current (A)	40-80	50-100	70-130	100-160	140-200

WELDING ELECTRODE
SZE-A022

AWS A5.4 E316L-16
GB/T E316L-16

Introduction:

SZE-A022 is a kind of ultra-low-carbon Cr18Ni12Mo2 stainless steel electrode with lime-Titania type coating. The carbon content of the deposited metal is lower than or equal to 0.04%. It has excellent heat-resistance, corrosion-resistance,crack-resistance, blowhole-resistance and welding performance. The coating has red-resistance and high strength.AC/DC.



Uses:

Used for welding equipment of urea, synthetic fiber, etc. and stainless steel structures of the same types, and also used for Cr stainless steel which does not need heat treatment after welding, composite steel, dissimilar steel, etc.

Typical Chemical Composition of welding wire (%)

C	Mn	Si	S	P	Cr	Ni	Mo	Cu
0.025	1.20	0.60	0.007	0.021	19.05	11.60	2.45	0.038

Typical Mechanical Properties of Deposited Metal

Yield Strength ReL(Mpa)	Tensile Strength Rm(Mpa)	Elongation δs(%)	Impact test	
			Temperature (°C)	Impact Energy KV_2(J)
--	570	46	--	--

Size and recommended current range

Diameter (mm)	2.0	2.5	3.2	4.0	5.0mm
Welding Current (A)	40-80	50-100	70-130	100-160	140-200

SZESHANG



Certification

AUTHENTICATION

































