



TOKO GROUP

Better Together



In the past couple years, TOKO GROUP have been servicing industry, commercial and retail customers in global with prime quality products that are on time, on spec, on trend and forward looking.

Our main business are specializing in the area of "**Welding materials, Welding tools, Machinery, IoT & Import**"etc, we promote innovation through an open management style that encourages a free flow of ideas among all levels of employees. This system gives all employees the opportunity for personal growth and enhances contribution in their role in achieving the company's mission objectives.



We have done this in no small part through our strong supplier partnerships that embrace the core philosophy of providing customers "what they need, when they need it and at a price that keeps them competitive or that they can afford to pay".

"Do better if we are not the first one. Make efforts to accomplish what other people have failed to achieve. Try it out if nobody has done so!" it's our daily management motto.

Our mission is to forge lasting partnership with its customers, and is dedicated to providing total support at any time it is needed.

Flux Cored Welding Wire

AWS A5.20 E71T-1C is formulated to deposit x-ray quality welds in flat, vertical up, horizontal, or overhead positions. E71T-1 is designed for welding low carbon and mild steel, structural and pressure vessel grades.

E71T-1 flux core ingredients produce a fast freezing slag that facilitates out of position welds. Bead contour is flat to slightly convex. Slag is easy to remove and low spatter provides easy post weld cleaning.



Chemical Composition of Deposited Metal:

	C	Mn	Si	P	S
Case (W/ CO ₂)	0.052	1.4	0.42	0.019	0.011
Standard (AWS E71T-1)	≤0.18	≤1.75	≤0.90	≤0.03	≤0.03

Mechanical Properties of Deposited Metal:

	YP Rel/ Mpa	Tensile Strength/Mpa	Elongation(%)	Impact Value
Case (W/ CO ₂)	505	570	28	-20°C/ 120
Standard (AWS E71T-1)	≥375	490-660	22	27

Reference Welding Parameter (DC+):

Specification (Diameter Size)	1.2MM	1.4MM	1.6MM
Volt	23-30	24-36	25-40
Amp	150-300	170-360	200-400
mm	15-25	15-25	20-30
L/min	20-25	20-25	20-25

Application :

Shipbuilding, Offshore, bridge, pressure vessel and general fabrications etc.

Diameter: 0.8mm / 0.9mm / 1.0mm / 1.2mm / 1.6mm / 2.0mm / 2.4mm

Approval: ABS, LR, BV, GL, DNV, KR, CCS

Submerge Welding Wire



H08MnA(EM12) submerged ARC welding products in drums have excellent welding and machinery performance and can be used with many kinds of welding flux. The electric arc is steady; welding slags are easily removed; welding line is formed well and the welding speed is fast. There is no splashing and arc stimulation in the melting of the welding wire. The welding line surface is bright and clean, and the welding quality is guaranteed and it is prone to realize mechanization and automatic welding.

This series of submerged arc welding products are widely used in shipbuilding industry, large steel structure, pressure vessels, bridges and so on. Some products with special marks have been used in welding of vessels in the nuclear power station.

Mechanical Properties of Deposited Metal:

Test Item	Rm(MPa)	Rel (Mpa)	A(%)	KV2(J)
Guarantee Value	415-550	≥330	≥22	≥27(-20°C)
General Result	470	365	30	60

Specification and Current:

Diameter(mm)	2.0	2.5	3.2	4.0	5.0
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Current(A)	300-400	350-450	425-525	475-575	550-650
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Chemical Composition(%):

Model / Composition	C	Mn	Si	S	P	Ni	Cu	Cr
AWS H08A /EL8	≤0.10	0.30-0.55	≤0.03	≤0.030	≤0.030	≤0.30	≤0.20	≤0.20
AWS H08MnA/EM12	≤0.10	0.80-1.10	≤0.07	≤0.030	≤0.030	≤0.30	≤0.20	≤0.20
AWS H10Mn2/EM12K	≤0.12	1.50-1.90	≤0.07	≤0.035	≤0.035	≤0.30	≤0.20	≤0.20

Diameter Available: 1.6MM, 1.8MM, 2.0MM, 2.4MM, 2.6MM, 2.8MM, 3.0MM, 3.2MM, 4.0MM etc

CO2 MIG Welding Wire

AWS A5.18 ER70S-6 is a silicon and manganese deoxidized wire used for mild and low alloy steel general purpose fabrication. A well balanced silicon and manganese content permits its use with CO₂, Argon-Oxygen mixtures, or mixtures of the two. This wire may be used for short-circuiting arc (dip-transfer), buried arc, as well as spray transfer arc processes. ER70S-6 produces quality weld with rimmed steels, better welds on killed steels. It yields an almost slag-free deposit which does not require cleaning for many applications thereby providing low plate preparation costs, good bead appearance and welder satisfaction.



Applications: Automobile frames, farm equipment, sheet metal, ships and barges, rail cars, trailers, ornamental iron, metal furniture, storage bins and general fabrications.

Chemical Compositions :										
Items	C	Mn	Si	P	S	Ni	Cr	Mo	Cu	V
Standard	0.06~0.15	1.4~1.85	0.8~1.15	≤0.025	≤0.035	≤0.15			≤0.50	≤0.03
Actual	0.08	1.51	0.89	0.015	0.013	0.016	0.021	0.006	0.18	0.003
Mechanical Performance:										
Tensile strength Rm(Mpa)	Yield Strength Rel or Rp0.2 (Mpa)		Elongation Ratio(%)		Fracture Energy (J)		Protection Gas			
545	452		29		91 (-30°C)		CO2、Ar			

2. Reference welding Current and Voltage

Size(mm)	Current (Amp)	Reference Current	Voltage (V)	Packing in KGS	
				15, 20	250
0.8	50~120	100	15~22	√	√
1.0	70~180	150	18~24	√	√
1.2	80~350	280	18~34	√	√

Packing Method: 5Kg/Spool/Carton; 15Kg/Spool/Carton

Stainless Steel Welding Wire

AWS A5.9 ER316L for ultra low carbon stainless steel MIG welding wire, welding metal is 19%Cr-12%Ni-2%Mo austenite structure, corrosion resistance, heat resistance and crack resistance. Because of containing Mo, the acetic acid, sulfurous acid, phosphoric acid and salt have good corrosion resistance, especially against the pitting of the chlorine ion.

Uses: mainly suitable for chemical industry, power engineering structure of stainless steel welding, such as AISI316L, SUS316L. Also can be used without heat treatment after welding of high chromium steel and dissimilar steel welding.



AWS	Chemical Composition of Deposited Metal(%)								
	C	Si	Mn	P	S	Cr	Ni	Mo	Cu
ER202	≤0.15	≤1.00	7.501	0.06	0.03	17.0-19.0	4.0-6.0	-	-
ER301	≤0.15	≤1.00	≤2.00	0.03	0.03	16.0-18.0	6.0-8.0	-	-
ER302	≤0.15	≤1.00	≤2.00	0.03	0.03	17.0-19.0	8.0-10.0	-	-
ER304	≤0.07	≤1.00	≤2.00	0.03	0.03	17.0-19.0	8.0-11.0	-	-
ER304L	≤0.03	≤1.00	≤2.00	0.03	0.03	18.0-20.0	8.0-12.0	-	-
ER308	0.08	0.3-0.65	1.0-2.5	0.03	0.03	19.5-22.0	9.0-11.0	0.75	0.75
ER308L	0.03	0.3-0.65	1.0-2.5	0.03	0.03	19.5-22.0	9.0-11.0	0.75	0.75
ER308LSI	0.03	0.65-1.0	1.0-2.5	0.03	0.03	19.5-22.0	9.0-11.0	0.75	0.75
ER309	0.12	0.3-0.65	1.0-2.5	0.03	0.03	23.0-25.0	12.0-14.0	0.75	0.75

ER309L	0.03	0.3-0.65	1.0-2.5	0.03	0.03	23.0-25.0	12.0-14.0	0.75	0.75
ER310	0.08-0.15	0.3-0.65	1.0-2.5	0.03	0.03	25.0-28.0	20.0-22.5	0.75	0.75
ER312	0.15	0.3-0.62	1.0-2.5	0.03	0.03	28.0-32.0	8.0-10.5	0.75	0.75
ER316	0.08	0.3-0.65	1.0-2.5	0.03	0.03	18.0-20.0	11.0-14.0	2.0-3.0	0.75
ER316L	0.03	0.3-0.65	1.0-2.5	0.03	0.03	18.0-20.0	11.0-14.0	2.0-3.0	0.75
ER316LSI	0.03	0.65-1.0	1.0-2.5	0.03	0.03	18.0-20.0	11.4-14.0	2.0-3.0	0.75

Other Items: ER201,ER304,ER308,ER308L,ER309,ER309L,ER316,ER316L,ER410,ER420,ER430,etc.

Alu-Alloy Welding Wire

Welding Wire ER5356 Aluminum 3/64" (4" - 1 Lb.)
ER5356 Aluminum welding wire is mainly used where higher weld strength and greater ductility is required and is compatible with **5050, 5052, 5083, 5154, 5356, 6061 and 6363 alloys**. 5356 has greater resistance to corrosion (salt water) and better color match after anodizing.



Application:

mainly used in electrician,chemical,sports equipment,furniture and bicycle and such other aluminum alloy profile weld.

2) low carbon steel and low alloy steel, rolling stock, container, engineering machinery, and pressure container.

1. Chemical Composition:

AWS Code	Chemical Composition(%)							
	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti
ER1060	0.25	0.35	0.05	0.03	0.03	~	0.06	0.03
ER1100	0.95	0.95	0.05-0.20	0.05	~	~	0.10	~
ER4043	4.5-6.0	0.80	0.30	0.05	0.05	~	0.10	0.20
ER4047	11.0-13.0	0.80	0.30	0.15	0.10	~	0.20	~
ER5356	0.25	0.40	0.10	0.05-0.20	4.5-5.5	0.05-0.20	0.10	0.06-0.20
ER5183	0.40	0.40	0.10	0.5-1.0	4.3-5.2	0.05-0.20	0.25	0.15
ER5556	0.10	0.30	0.05	0.55-8.0	4.7-5.2	0.05-0.10	0.09	0.05-0.10

Other Items: ER1060, ER1100, ER4043, ER4047, ER5356, ER5183, ER5556,etc.

Diameter: 0.8mm,0.9mm,1.0mm,1.2mm,1.6mm

Packing: 1Kg/Spool, 2.5Kg/Spool, 5Kg/Spool, 10Kg/Spool and 15Kg/Spool

Mill Steel Welding Electrode



AWS A5.1 E6013 is the most popular steel welding rods with high titania potassium type coating. It is able to provide excellent welding performance and satisfactory weld can be obtained in all position welding.

It is widely used in ordinary tensile strength mild steel structures especially suitable for intermittent welding to sheet steel and small work pieces as well as cosmetic welding with smooth and shiny appearance.

Chemical Composition of Deposited Metal (%):

	C	Mn	Si	S	P	Ni	Cr	Mo	V
Standard	≤0.20	≤1.20	≤1.00	≤0.035	≤0.040	≤0.30	≤0.30	≤0.30	≤0.08
Typical	0.070	0.41	0.26	0.021	0.023	0.018	0.027	0.002	0.001

Mechanical Properties of Deposited metal (AW):

	Yield Point ReH (Mpa)	Tensile Strength Rm (Mpa)	Elongation A4 (%)	Impact Value(J)	
				20°C	0°C
Standard	≥306	400-560	≥22	—	≥47
Typical	395	480	29	110	80

Sizes, Pieces & Recommended Current (AC or DC):

Size(mm)		2.5×300	2.5×350	3.2×350	4.0×400	4.0×450	5.0×400	5.0×450
Pieces(5kg)		≈300	≈255	≈157	≈90	≈80	≈59	≈52
Current(A)	F,H	60-90	60-90	80-130	150-190	150-190	180-250	180-250
	V,OH	50-80	50-80	80-110	130-170	130-170	---	---

Cellulose Potassium Welding Rods

AWS A5.1 E6011 is a high cellulose potassium type welding rods for mild steel. It is suitable for vertical-down welding and lap welding for sheet structures. Such as smoke pipes, wind pipes, oil tanks of transformer, vehicles, etc.

It is not good for wide weave when welding and it is not suitable for multi-layer or face welding.



Chemical Composition of Deposited Metal (%)

	C	Mn	Si	S	P	Ni	Cr	Mo	V
Standard	≤0.20	≤1.20	≤1.00	≤0.035	≤0.040	≤0.30	≤0.20	≤0.30	≤0.08
Typical	0.096	0.67	0.20	0.024	0.024	0.008	0.041	0.001	0.012

Mechanical Properties of Deposited metal (AW)

	Yield Point Reh (Mpa)	Tensile Strength Rm (Mpa)	Elongation A4 (%)	Impact Value(J) - 30 °C
Standard	≥330	≥430	≥22	≥27(Average)
Typical	405	500	30	75

Sizes, Pieces & Recommended Current (AC or DC)

Size(mm)	2.5×300	3.2×350	4.0×350	5.0×350
Pieces(5kg)	≈328	≈185	≈120	≈76
Current(A) OH,VD	30-50	70-100	90-140	150-200

Approvals	CCS	LR	ABS	BV	GL	DNV	NK
Grade	2	2N	2	2	2	2	KMW2

Low Hydrogen Welding Rods



AWS A5.1 E7018 is an outstanding quality all position welding electrode covered with extra low hydrogen potassium type coating for high tensile strength mild steels and low alloy steels. Its nominal welding efficiency is about 110% due to iron powder is contained. The weld metal shows an excellent low temperature toughness and high crack-resistance.

It is widely used in important projects of ship, boilers, high pressure vessels, bridges, skyscrapers, offshore drilling platforms, nuclear power plants and so on. The groove of base metal should be cleared impurities away and the electrode must be baked at 400°C then be held 1-2 hours before welding, 2.5mm or less one should be done by 350°C then be held 1 hour.

Chemical Composition of Deposited Metal (%) :

	C	Mn	Si	S	P	Ni	Cr	Mo	V
Standard	≤0.15	≤1.60	≤0.75	≤0.035	≤0.040	≤0.30	≤0.20	≤0.30	≤0.08
Typical	0.068	1.36	0.51	0.010	0.016	0.022	0.016	0.010	0.012

Mechanical Properties of Deposited metal (AW) :

	Yield Point ReH (Mpa)	Tensile Strength Rm (Mpa)	Elongation A4 (%)	Impact Value(J)
				-20 °C
Standard	≥375	490-660	≥22	≥47(Average)
Typical	440	540	30	150

Sizes, Pieces & Recommended Current (AC or DC) :

Size(mm)	2.5×350	3.2×350	4.0×400	4.0×450	5.0×400	5.0×450
Pieces(5kg)	≈248	≈145	≈85	≈75	≈51	≈45
Current(A)	F,H	70-100	100-140	140-170	140-170	190-240

Other Items: AWS A5.1 E7015, AWS A5.1 E7016, AWS A5.1 E7018, AWS A5.5 E9018 etc.

Stainless Steel TIG Welding Wire

Stainless Steel TIG Wire is primarily used for welding low carbon molybdenum-bearing austenitic alloys. This filler metal has the same analysis as ER316, except that the carbon content is limited to a maximum of 0.03% in order to reduce the possibility of formation of intergranular carbide precipitation. This low carbon alloy is not as strong at elevated temperatures as ER316H.



Advantage:

1. Excellent Straightness
2. Uniform and beautiful surface condition
3. Excellent coil-forming ability
4. High elasticity and high fatigue resistance
5. Strong corrosion resistance against exposure to the toughest atmosphere

Details as shown in the below chart :

AWS	Chemical composition of deposited metal(%)								
	C	Cr	Ni	Mo	Mn	Si	P	S	Cu
ER308	0.08	19.5-22.0	9.0-11.0	0.75	1.0-2.5	0.30-0.65	0.03	0.03	0.75
ER308L	0.03	19.5-22.0	9.0-11.0	0.75	1.0-2.5	0.30-0.65	0.03	0.03	0.75
ER309	0.12	23.0-25.0	12.0-14.0	0.75	1.0-2.5	0.30-0.65	0.03	0.03	0.75
ER309L	0.03	23.0-25.0	12.0-14.0	0.75	1.0-2.5	0.30-0.65	0.03	0.03	0.75
ER316	0.08	18.0-20.0	11.0-14.0	2.0-3.0	1.0-2.5	0.30-0.65	0.03	0.03	0.75
ER316L	0.03	18.0-20.0	11.0-14.0	2.0-3.0	1.0-2.5	0.30-0.65	0.03	0.03	0.75

Packaging & Shipping

1. 5kg/2.5kg/15kg/coil, into carton box, 1 ton/pallet(mig wire)
2. 5kg per tube, 500kgs per pallet(tig wire)

Grade Available: AWS A5.4 E308L-16, E309L-16, E316L-16 etc

Submerge Welding Flux



Auto Welding Flux SJ501 is an agglomerated aluminium-titanium type acidity flux (Rutile type), with alkalinity around 0.5-0.8. It is gray and round grain with mesh 10-60(2.0-0.28mm). It can be operated with AC and DC. the wire shall be connected to positive pole when applying DC.

It has steady arc, nice weld formation, and easy in slag removal specially at high speed. The welding porosity scarcely occur.

Caution:

It should be re-dried under 300-350°C for 2 hours. Rust, grease and moisture on the weldment should be removed before welding.

Usage:

When applied to various welding wires (such as H08A,H08MnA), it can weld low-carbon steel,low-alloy high strength structural steel.It can be welding boiler,ships,pressure vessel, miniature LPG tanks,vehicles,structural steels etc. Especially used for fast welding of thin steel sheet.

Chemical Composition(%)

SiO ₂ +TiO ₂	Al ₂ O ₃ +MnO	CaF ₂	S	P
25-35	50-60	5-10	≤0.05	≤0.05

Mechanical Performance of the Deposited Metal

AWS NO	Standard Models	Yield Point Rel(MPa)	Tensile Strength Rm(MPa)	Elongation A(%)	Impact Value Kv2(J)
EL8	F6Az-EL8	≥330	≥415	≥22	≥27(0°C)
EL12	F7A0-EL12	≥330	≥420	≥22	≥53(-18°C)
EM12K	F7A2-EM12K	≥410	≥500	≥22	≥45(-200°C)

Packing Details:

- (1)Bag:25 KGS/Kraft Bag With Plastic Lining Inside
- (2)Pallet:40 Bags(1 Ton)/Plywood Pallet
- (3)Container:20-24 Tons/Container

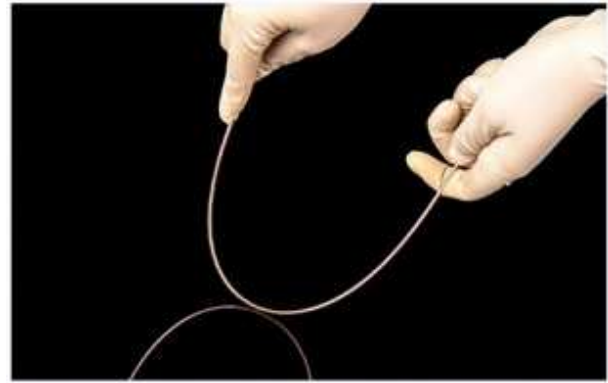
Our service:

- 1)Prime quality+Competitive price+Thoughtful Service=100% Satisfactions
- 2)We can research and produce customized fluxes according to your different demands.
- 3)SAW Welding Flux Expert- One Stop Solution For Submerged Arc Welding consumables.

Other Flux available: SJ101, SJ102, SJ301, SJ501, HJ107, HJ260, HJ431 etc

Copper Alloy Welding Rods

Phosphorus Copper filler alloys are extensively used to join copper and copper alloy base metals (brass, bronzes). Phos-Copper is extensively used in Non-Ferrous Industry. They have self-fluxing properties when used on copper and may or may not contain Silver. Continuous service operating temperatures of joints brazed with these alloys range up to approx 200 °C.



Corrosion resistance is satisfactory, except when the joints are exposed to sulfurous environments, especially at elevated temperatures.

Phosphorous Copper alloys should not be used on ferrous, nickel based alloys, or copper-nickel alloys with more of 10% nickel, in order to avoid premature failure of the joint due to the formation of brittle inter metallic phases.

Standard	Alloys	Chemical Composition %	Solidus	Liquidus	Application
AWS A5.8	BCuP-2	Cu:Bal. P:6.5-7.5	710°C	790°C	For brazing of copper and copper alloys.
AWS A5.8	BCuP-3	Cu:Bal. P:5.7-6.1 Ag:5.0-5.2	643°C	816°C	For brazing of copper and copper alloys.
AWS A5.8	BCuP-5	Cu:Bal. P:4.8-5.3 Ag:14.5-15.5	643°C	800°C	For brazing of copper,copper alloys,silver and molybdenum etc.
AWS A5.8	BCuP-6	Cu:Bal. P:6.8-7.5 Ag:1.8-2.2	643°C	790°C	For brazing of copper and copper alloys.
AWS A5.8	BCu86PSn	Cu:Bal. P:6.5-7.5 Sn:6.5-7.5	640°C	680°C	For brazing of copper and copper alloys.

Specifications:

Round Rods: ϕ 1.6-3.2MM Length: 50-500MM

Flat Rods: 0.05"x1/8" x 500MM (18"/20")

Flat Wire: Thickness: 0.15-0.4MM Width: 1.0-3.0MM 1.0kg/spool

Packing Method:

1.0Lb/tube , 1.0kg, 2.0kg, 5.0kg, 20kg /box5-10kg/bag /box, 500kg-1000kg/pallet,

Available Grade:

AWS A5.8 BCuP-2 (BCu93P), BCuP-6(BCu91PAg), BCuP-3 (BCu88PAg) etc.,

PHOTO ILLUSTRATE



Md. William Wu



TOKO Awards Wall



TOKO Welding Materials Warehouse



TOKO Materials Pallet Packing



Container Loading Materials

Slitting Line Machine for Metal Coil

Slitting Line Machine are designed to perform exceeding top quality standards in slitting of metal strips. Slitting line is used to shear metal material longitudinally and to recoil the fillet. It can be easily operated. This slitting line gives high quality and precision when cutting material. It utilizes material very efficiently. What's more, the cutting speed is adjustable.

The main structures of the slitting machine are de-coiler, head-guiding, slitting and re-coiler. The main kinds of applicable material are tinplate, silicon-steel plate, aluminum, copper, stainless steel plate, galvanized sheet. Our slitting machine is popular in the transformer, the electrical machinery, home appliances, motor vehicles, building material industry, packaging industry, etc.

Aluminum coil (thickness range: 0.15~3.0mm);

Copper and brass coil (thickness range: 0.15~3.0mm);

Stainless steel coil (thickness range: 0.2~3.5mm);

MS carbon steel coil (thickness range: 0.2~0.6mm; 0.6~4.0mm, 4.0~12.0mm, 6.0~25.0mm);

The thickness can range from the thinnest alloyed steel, down to 0.20MM, to the thickest carbon steel, up to 16 mm

Strip Width, from the narrowest 100MM to the widest 2500MM;

Coils Weight up to 45 tons; Maximum slitting speed up to 200M/min.;



Cut to Length “CTL” Machine for Metal Plate

Cut-to-Length machine “CTL” is a kind of steel coil leveling equipment. It's used to cut the sheet which is after uncoiled into required length. Integrated with scissor and drop-type stacker, cut-to-length machine features hydraulic adjustments and oiling capabilities. The finished steel coils of CTL line have uniform width and flatness.



TOKO companies understand “Quality” to include product packing and packaging, labeling, timely and accurate information and on time deliveries to buyers.

Your specific requirements and expectations will be stated as precisely as possible in your purchasing documents to ensure we understand your needs and so eliminate the possibility of misunderstanding.

PRODUCT PERFORMANCE

Customer satisfaction is our highest priority and pursuit. TOKO Group’s companies require a similar commitment from their partner suppliers.

Products are of merchantable quality, Production is consistent in quality throughout the shipment

INSPECTION AND TESTING

It can be appreciated that the earlier a problem is identified the better, as more time is available to rectify the problem and still meet the original shipment date.

To ensure that the products manufactured are to our expected Quality standard:

Before shipment, we may require our partner supplier’s products be inspected and tested for conformance with the requirements of our Purchase Order specifications and relevant International and Chinese Standards applicable to the products.

Where applicable, prior to shipment, our nominated Quality Officer will schedule an inspection as well as obtain product samples from production for testing by certified laboratories

Where the test results or inspections show a deficiency in product, the Supplier will be notified to rectify the deficiency prior to the goods being shipped. The supplier may be required to express delivery, should the correction process mean the agreed to ship date is now not possible.

IF THE PRODUCT FAILS TESTING AFTER THE SHIPMENT IS ON THE VESSEL, WE RESERVE THE RIGHT NOT TO ACCEPT THE SHIPMENT, RETURN THE SHIPMENT OR IMPOSE AN EQUITABLE PENALTY ON THE SUPPLIER.

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