

CATALOGUE

WELDING CONSUMABLES



TABLE OF CONTENTS

02	Company Introduction
03	Our history
05	Vision – Mission – Business Philosophy
06	Certifications
08	Welding electrode
14	Welding wires
19	Others



AN TOÀN CỦA BẠN LÀ HÀNH TRÌNH CỦA CHÚNG TÔI



ABOUT OUR COMPANY

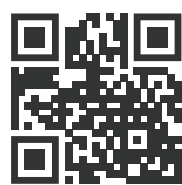
Formerly a company specializing in the trading and distribution of metal products and welding consumables, with long-term vision, the company's board of directors decided to build a factory to manufacture welding electrodes and welding wires with Kim Tin brand.

Over 23 years of establishment and development, Kim Tin has become a leader in welding consumables manufacturing and trading in Vietnam. Besides, Kim Tin also expands business lines, diversifying product baskets such as: metal materials, machinery and equipment, spider glue, TikTak spray paint, flooring, MDF board...

With the business philosophy "Our promise, our commitment is gold", Kim Tin pays special attention to the product quality. Therefore, the R&D team is constantly researching and improving product quality to bring more good experiences to customers. All products produced by Kim Tin meet international standards and are safe for the environment and consumer health.

OBJECTIVES AND STRATEGY

- To become the No. 1 company in manufacturing, trading, and supplying welding consumables in Vietnam;
- To increase Kim Tin's market share in each industry by more than 35%;
- To move toward environmentally and community-friendly products, high-quality services to meet customer needs;
- To list member companies in Kim Tin Group on the stock exchange.



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ESTABLISHMENT AND DEVELOPMENT JOURNEY

Over 23 years of establishment and development, Kim Tin has always persistently pursued the path of sustainable development, aiming to balance the interests of stakeholders. At the same time, we uphold **"our promise, our commitment is gold"** by providing the highest quality products and services.

2000

29th Jan 2000, Kim Tin Trading Co., Ltd was established



2001

- Built our first welding electrode factory in Ho Chi Minh City with a capacity of 20,000 tons per year



2003

- Established Kim Tin Da Nang corporation, marking the first step in the journey entering Vietnam central market



2005 - 2006

- Established Kim Tin Joint Stock company in Hanoi - the first step in expanding business in the North
- Established Kim Tin Hung Yen Joint Stock company - the welding consumables factory in the North



2008

- Tan Tao Warehouse, with an area of 15,000 m², is put into operation, initially forming a logistic system
- Started construction of an industrial cluster of welding consumables factories in Long An province with a capacity of 120,000 m², bringing the total capacity of the Long An factory up to 80,000 tons per year

2010 - 2011

Established Kim Tin Quang

- Tri Joint Stock Company with a design capacity of 48,000 tons per year and an area of 45,000 m²
- Launched new products: Steel nail and Drawing steel wire

2015 - 2016

- Established Kim Tin Long An welding consumables factory cluster, completed the production lines of welding electrodes, welding wires, welding flux, nails, and steel tie
- Promoted the development of logistics services, established a company called nPL Logistics Joint Stock Company with more than 100 container trucks
- Expanded Kim Tin Hung Yen welding consumable factory, bringing the total capacity of Hung Yen factory to 68,000 tons/year, with an area of 70,000 m²

2021 - 2022

- Became the first non-state enterprise in Vietnam to implement a comprehensive management system (SAP, S4/HANA, S&OP, MES) with a total investment of 5 million USD



Business Philosophy



Our promise, our commitment is gold.

With our visionary approach, Kim Tin has emerged as the prominent leader in the supporting industry in Vietnam. As a result, Kim Tin consistently prioritizes the significance of product and service quality as the guiding star that connects us with our valued customers and partners.

Vision



Sustainable development, toward the future.

Mission



Conquer customer's trust and satisfaction.



Maintain and promote the pride of Kim Tin Group.

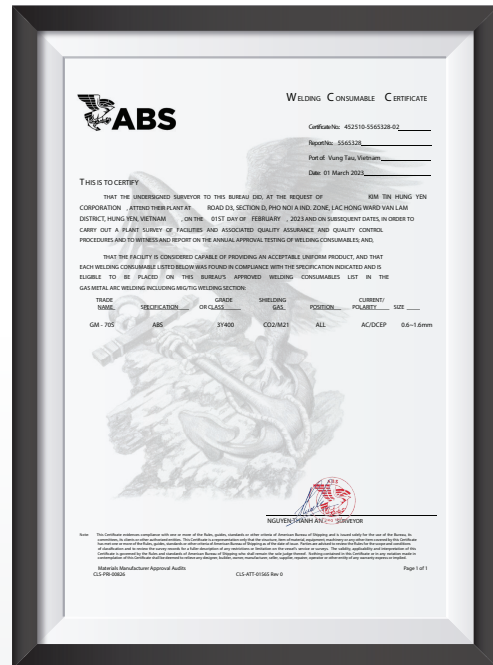


Balance the benefit of related parties.





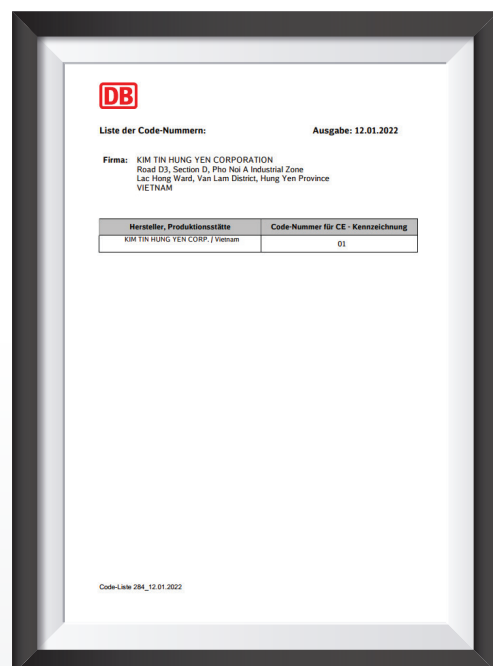
QUALITY CERTIFICATIONS



Product Standard Certification
to export to Europe market



Controlling Certification
of Product quality (USA)



Certificate of CSA W48-18 standard
from The Canadian Welding Bureau



Product quality certification
in Europe market





QUALITY CERTIFICATIONS



ROHS certification
from SGS Vietnam



Certification of meeting standards
JIS Z 3312:2009 of Quality Test
and Certification Control Center



Certificate of Basic Competency
manufactured by Vietnam Register
Department



Certificate of Basic Competency
Service provision of Vietnam
Register Department



1 WELDING ELECTRODE

- 09 _____ Low carbon steel welding electrode
- 11 _____ Stainless steel welding electrode
- 11 _____ Hard-facing welding electrode
- 12 _____ TIG welding electrode

Low carbon steel welding electrode



- The covers of KT-421 and KT-6013 are made with titanium type coating to ensure a favorable welding process.
- KT-421 and KT-6013 is a low carbon steel welding electrode which is suitable for carbon steel weld and low alloy steel with medium load structure such as: industrial workshop structure, machine parts, hand rail, iron doors...

- Welds have a bright, smooth, easy to remove slag; light electricity, low smoke and little splash.
- Can be welded in all different welding positions: flat welding, horizontal welding, overhead welding,...
- Good arc ignition sensitivity, the maximum dwell time for re-striking of an arc not less than 60 seconds.

Low carbon steel electrode

KT-421

Vietnamese Standard:
TCVN: 3223-2000-E432R
Vietnamese technical regulation:
QCVN: 21:2015/BGTVT-MW2
American Standard:
AWS A5.1 E6013
Japanese Standard:
JIS D4313
NK Registry:
KMW2



Packing Specification

Net weight of box(kg)		Net weight of master carton box (kg)
ø 2.5 mm	ø 3.2 - 4.0 mm	
2.5	5	20

Chemical Composition of welding metal layer (%)

C	Mn	Si	P	S
0.2 max	1.2 max	1.0 max	0.03 max	0.03 max

Mechanical properties

Tensile strength (MPa)	Yield stress (MPa)	Elongation (%)	Impact resistance tenacity at 0°C (J)
430 min	330 min	17 min	27 min

Size and recommended current (AC or DC)

Diameter (mm)	ø 2.5	ø 3.2	ø 4.0	ø 5.0
Length (mm)	300	350	400	400
Welding Current (Ampe)	50-90	80-130	105-180	150-230

Low carbon steel electrode

KT-6013

Vietnamese Standard:
TCVN: 3223-2000-E432R
Vietnamese technical regulation:
QCVN: 21:2015/BGTVT-MW2
American Standard:
AWS A5.1 E6013
Japanese Standard:
JIS D4313



Packing Specification

Net weight of box(kg)	Net weight of master carton box (kg)
5	20

Chemical Composition of welding metal layer (%)

C	Mn	Si	P	S
0.2 max	1.2 max	1.0 max	0.03 max	0.03 max

Mechanical properties

Tensile strength (MPa)	Yield stress (MPa)	Elongation (%)	Impact resistance tenacity at 0°C (J)
430 min	330 min	17 min	27 min

Size and recommended current (AC or DC)

Diameter (mm)	ø 3.2	ø 4.0	ø 5.0
Length (mm)	350	400	400
Welding Current (Ampe)	80-130	105-180	150-230

Low carbon steel welding electrode



- **GL-78 & GL-52 have base cover**, which is supplemented with a large amount of Manganese, Silicon and rare earth, to ensure the weld has extremely small impurities, high bearing strength.
- **The flour content in the coating has strongly reduced hydrogen**, so the GL-78 and GL-52 welds contain very low hydrogen content, ensuring resistance to hot and cold thermal cracking and high weld toughness.
- **Especially in the GL-78 flux shell**, a large amount of pure iron powder is added, which has improved welding performance and effectively increased labor productivity.
- **GL-52 can weld in all positions with a stable arc**, strong pressure, weld pool, ease of peeling and cleaning slag, no slag, porosity, etc. Especially when welding with a DC power source, GL-52 gives excellent results.
- **The GL-78 and GL-52 welding rods** weld low-carbon and low-alloy steels with tensile strengths of 500 N/mm².
- **GL-78 and GL-52 are the best choices** for welded structural strength problems and are suitable for ship structures, construction, wharves, heavy load beams, pressure tanks, etc.

Low carbon steel electrode

GL-78

Vietnamese Standard:
TCVN: 3223-2000-E513
Vietnamese technical regulation:
QCVN: 21:2015/BGTVT-MW53
American Standard:
AWS A5.1 E7018
Japanese Standard:
JIS D5018
NK Registry:
KAW53H10



Packing Specification

Net weight of box(kg)	Net weight of master carton box (kg)
5	20

Chemical Composition of welding metal layer (%)

C	Mn	Si	P	S
0.15 max	1.6 max	0.75 max	0.035 max	0.035 max

Mechanical properties

Tensile strength (MPa)	Yield stress (MPa)	Elongation (%)	Impact resistance tenacity at -30°C (J)
490 min	400 min	22 min	27 min

Size and recommended current (AC or DC)

Diameter (mm)	ø 3.2	ø 4.0	ø 5.0
Length (mm)	350	400	400
Welding Current (Ampe)	105-155	130-200	200-275

Low carbon steel electrode

GL-52

Vietnamese Standard:
TCVN: 3223-2000-E513
Vietnamese technical regulation:
QCVN: 21:2015/BGTVT-MW53
American Standard:
AWS A5.1 E7016
Japanese Standard:
JIS D5016
NK Registry:
KAW53H10



Packing Specification

Net weight of box(kg)	Net weight of master carton box (kg)
5	20

Chemical Composition of welding metal layer (%)

C	Mn	Si	P	S
0.15 max	1.6 max	0.75 max	0.035 max	0.035 max

Mechanical properties

Tensile strength (MPa)	Yield stress (MPa)	Elongation (%)	Impact resistance tenacity at -30°C (J)
490 min	400 min	22 min	27 min

Size and recommended current (AC or DC)

Diameter (mm)	ø 3.2	ø 4.0	ø 5.0
Length (mm)	350	400	400
Welding Current (Ampe)	100-150	140-200	180-255

G-308

Vietnamese Standard:
QCVN 21:2015/BGTVT-D308

American Standard:
AWS A5.1 E308

Japanese Standard:
JIS D308-16



- **G-308 is suitable for welding Austenitic stainless steel of all kinds**, such as E304, E305, and E308, sometimes with good mechanical quality, high strength, and toughness. G-308 is also used in structures that are subject to heavy loads and have high wear resistance.
- **G-308 is suitable for welding medical equipment**, household appliances, chemicals, civil art structures, stainless steel tanks, steel handrails, etc.
- **G-308 has a bright, smooth, easy to remove slag**, light electricity, quiet explosion, low smoke, little splash, and a stable arc.
- **G-308 is a type of welding electrode with a high lime-titanium coating**, designed with Austenitic weld metal with low hydrogen content and supplemented with a large amount of rare alloying elements such as chromium, nickel, and rare earths to ensure the metal system E308, so it has anti-rust, acid-resistant, and very high mechanical properties.

Packing Specification

Net weight of box(kg)	Net weight of master carton box (kg)
1	12

Chemical Composition of welding metal layer (%)

C	Mn	Si	Cr	Ni	Mo	P	S
0.08 max	0.5-2.5	1.0 max	18-21	9-11	0.75 max	0.04 max	0.03 max

Mechanical properties

Tensile strength	Elongation (%)	Yield stress (Mpa)
550 min	35 min	--

Size and recommended current (AC or DC)

Diameter (mm)	ø 2.0	ø 2.5	ø 3.2	ø 4.0
Length (mm)	300	300	350	400
Welding Current (A)	45-60	65-90	90-120	120-150

GH-600

Japanese Standard:
JIS DF2B-600B



- **The GH-600 high-hardness surface resurfacing electrode is made for welding on metal surfaces that have worn out through using**. The surface of the part after the rehabilitating welding process has a stable texture, high hardness, and good wear resistance.
- **The GH-600 welding rod has a base coating with flour as the main ingredient**, so it has a low hydrogen content and small impurities. A martensitic background is added along with rare and precious alloying elements such as chromium and molybdenum to create a high-quality hard weld that is very resistant to abrasion and impact.
- **GH-600 welding rod can be welded in any position** with a stable arc, strong pressure, and a well-balanced weld, and it is simple to peel and clean, making it ideal for surfaces that require high aesthetic flatness.
- **After welding, the weld metal surface has a hardness of more than 55 HRC**; if heat treatment steps are used, the hardness can reach 65 HRC.

Packing Specification

Net weight of box(kg)	Net weight of master carton box (kg)
1	20

Chemical Composition of welding metal layer (%)

C	Mn	Si	Cr	Mo	S	P
0.75	1.23	0.80	4.20	0.10	0.011 max	0.023 max

Mechanical properties

After welding	When burning at 600°C and cooling
55HRC	65HRC

Size and recommended current (AC or DC)

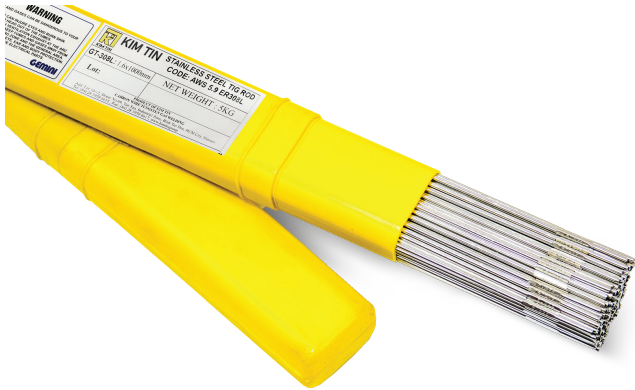
Diameter (mm)	ø 3.2	ø 4.0
Length (mm)	350	400
Welding Current (A)	100-150	140-190

ER70S6**Chemical Composition of welding metal layer (%)**

C	0.07 - 0.12
Mn	1.40 - 1.85
Si	0.80 - 1.15
P	0.03 max
S	0.03 max

ER308L

International Standard:
AWS A5.1 ER 5356



- **TIG ER70S6 welding rod has low carbon content**, high manganese and silicon content, and extremely small sulfur and phosphorus impurities, creating welds with high strength and toughness.
- **ER70S6** is made with high precision; the wire direction is even; it is covered with a layer of pure copper plating and polished, making the storage and soldering processes very stable.
- **ER70S6** is suitable for bottom welding of large thickness welded joints of medium carbon and alloy steel structures such as pressure tanks, pipelines, load bearing steel structures, civil structures, automobiles, ships, boats and so on.

Packing Specification

Net weight of box(kg)	05
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Mechanical properties

Protective gases	Ar pure
Yield stress (N/mm ²)	420 min
Tensile strength (N/mm ²)	520 min
Elongation (%)	24 min
Impact toughness -29°C (J)	60 min

- **TIG ER308L soldering iron has a low carbon content**, which reduces its ability to amplify carbide between particles. This increases intergranular corrosion resistance without the use of stabilizers such as columbium (niobium) or titanium.
- **TIG ER308L welding rod** has an average manganese content, sulfur impurities, and extremely small phosphorus to create a weld with high strength and long ductility. Especially with a high chromium and nickel content, the weld metal system has very high rust resistance, corrosion resistance, and mechanical indicators.
- **ER308L** is suitable for welding stainless austenitic steels such as A302, A304, A305, A308, and A308L, which need **good mechanical quality, durability, and high toughness**.
- **ER308L** is suitable for welding liners for critical bonding of stainless steel structures.
- **ER308L** is welded by semi-automatic technology with 100% Argon or 100% Helium shielding gas (TIG welding) to create a stable weld with little splash and a bright, smooth weld. **TIG welding rod ER308L** is suitable for welding all kinds of vessels, including chemical tanks, load-bearing structures, acid-resistant equipment, and equipment in the medical and food industries.

Packing Specification

Size	ø 1.6 mm	ø 2.0 mm	ø 2.4 mm	ø 3.2 mm
Packaging (kg)	05			

Mechanical properties

Protective gases	Ar
Tensile strength (MPa)	580 min
Yield stress (MPa)	-
Elongation (%)	35 min
Impact toughness (J)	-

Chemical Composition of welding metal layer (%)

C	0.03
Mn	1.75
Si	0.38
Cr	19.8
Ni	10.1





2 WELDING WIRE

- 15 _____ MIG/MAG Welding Wire
- 16 _____ Stainless steel welding wire
- 17 _____ SAW Welding Wire
- 18 _____ Welding Flux CAMEL

ER70S-6

Classification:
AWS A5.18 ER 70S-6
JIS YGW12



- **The advantage of the ER70S-6 welding wire** according to the MIG/MAG welding method is that the welding productivity is 2.5 times higher than that of electric arc welding with protective coating, more diverse and flexible than automatic welding under the flux layer in welding position in space. During the welding process less toxic gas is generated.
- **ER70S-6 is a welding wire with low carbon content**, high manganese and silicon content, and extremely small sulfur and phosphorus impurities, creating welds with high strength and toughness.
- **ER70S-6 is built with high precision**, uniform wire direction, and is plated with a layer of high purity copper for preservation and a stable welding process.
- **Welding wire ER70S-6 drum** is mainly used in companies that manufacture car components, motorcycles, precision mechanics, etc., where welding is done by pre-programmed robot arms.

Packing specification

Net weight of box(kg)	Net weight of big box (kg)
15	125-250-350

Chemical composition of wire (%)

C	Mn	Si	S	P
0.06-0.15	1.40-1.85	0.80-1.15	0.035 max	0.025 max

Mechanical composition of weld metal

Shielding Gas	Yield stress (MPa)	Tensile strength (MPa)	Elongation (%)	Impact resistance tenacity (J)
100% CO ₂	400 min	490 min	22 min	27 min/-30°C

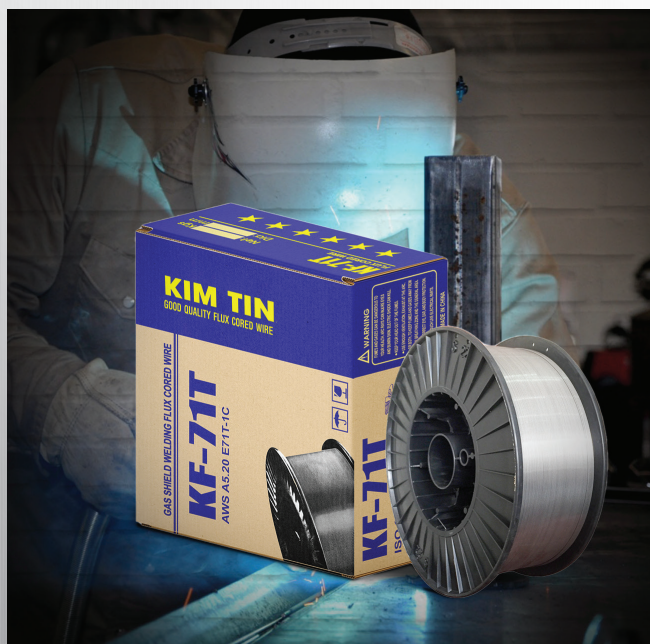
Size available, recommended currents (AC or DC)

Diameter (mm)	Ø 0.8	Ø 0.9	Ø 1.0	Ø 1.2	Ø 1.6
Welding Current (A)	80-120	90-130	100-140	110-220	180-320
Welding potential (V)	20-21	20-22	22-24	23-25	25-28
Gas volume in liters/minute	8-9	9-10	10-11	12-13	16-18

Flux cored arc welding wire

KF-71T

Classification:
AWS A5.20 E71T-1C



- **KF-71T is a titania type flux cored wire** for all position welding with CO₂
- **KF-71T** is suitable for welding high tensile steel with slow freezing slag system.

Packing Specification

Net weight of spool(kg)
05-15

Chemical Composition of weld metal (%)

C	Mn	Si	S	P
≤0.12	≤1.75	≤0.90	≤0.03	≤0.03

Mechanical properties of all-weld metal

Yield stress	Tensile strength	Elongation	Impact resistance tenacity
70 - 95 ksi (483 - 655 MPa)	58 ksi (400 MPa)	22%	20 ft.lbf at 0°F (27J at -18°C)

Size available, recommended currents (AC or DC)

Diameter (mm)	Ø 1.2	Ø 1.6
Welding Current (A)	110-220	180-320
Welding potential (V)	23-25	25-28
Gas volume in liters/minute	12-13	16-18

GM-308L

- GM-308L is a welding wire with low carbon content**, medium manganese content, and very small sulfur and phosphorus impurities that creates welds with high strength and toughness. Especially with its high chromium and nickel content, the weld metal system has anti-rust, acid-corrosion resistance, and very high mechanical properties.
- GM-308L** is made with high precision and even wire direction, which makes the welding process very stable.
- GM-308L** is suitable for welding austenitic stainless steel (Inox) such as E304, E305, and E308. Sometimes with good mechanical properties, high strength, and toughness, G-308L is also used in structures subject to heavy loads and high wear resistance.
- GM-308L is welded by semi-automatic technology** with 100% Argon shielding gas (MIG welding) to create a stable weld with little splash and a bright, smooth weld. GM-308L is suitable for welding chemical tanks, load-bearing structures, acid-resistant equipment, and medical equipment.

Packing Specification

Size	ø 0.8 mm	ø 0.9 mm	ø 1.0 mm	ø 1.2 mm
Packaging (kg)	05-08	08	08	05-08

Chemical Composition of welding wire (%)

C	Mn	Si	Cr	Ni	P	S
≤0.03	1.0-2.5	≤0.65	19.0-21.0	9.0-11.0	≤0.03	≤0.03

Mechanical properties

Protective gases	Tensile strength (Mpa)	Yield stress (Mpa)	Elongation (%)	Impact toughness (J)
Ar	510 min	-	>25 min	-

America Standard:
AWS A5.9 ER 308L



Submerged arc welding wire - SAW

EH14

Vietnamese Standard:

TCVN: 3223-2000

Vietnamese technical regulation:

QCVN: 21:2015/BGTVT,
PART 6-AW3

NK Registry:

NK KAW3TM

International Standard:

AWS A5.17 F6A2 EH14
KAW2/W3 EH14



- EH14 is suitable for single and multi-layer welding of miniature LPG tanks**, spirals pipes, ships, agricultural implements, machinery, boilers, bridge and structural steel.
- EH14 is intensive to rust**, scales, primers, oils, and dirt on the surface to be welded. Resistance to porosity and slag detachability are excellent.

Packing Specification

Net weight of spool (kg)	Net weight of big box (kg)
15-20-25-150-300-350	250-300-350-400

Mechanical properties

Grade	Tensile strength (N/mm ²)	Yield stress (N/mm ²)	Elongation (%)	Impact resistance tenacity (J)
EH14-CM122 (F7A4)	380 min	510 min	22 min	50 min/-40°C

Chemical Composition of welding wire (%)

C	Mn	Si	S	P
0.10-0.20	1.70-2.20	0.10 max	0.025 max	0.025 max

Size and recommended current (AC or DC)

Diameter(mm)	ø 2.4	ø 3.2	ø 4.0	ø 5.0
Welding Current (A)	350-400	420-460	480-520	550-610
Welding Arc Voltage (V)	27-29	28-30	28-30	28-30

SAW welding wire

EM-12K

Classification:
AWS A5.17 EM12K



Packing Specification

Net weight of spool (kg)	Net weight of big box (kg)
15-20-25-150-300-350	250-300-350-400

Chemical composition of wire (%)

C	Mn	Si	S	P
0.05-0.15	0.80-1.25	0.10-0.35	0.03 max	0.03 max

Size available, recommended currents (AC or DC)

Diameter (mm)	ø 1.6	ø 2.0	ø 2.4	ø 3.2	ø 4.0	ø 5.0
Welding Current (A)	200-350	300-350	350-400	420-460	480-520	550-650
Welding Arc Voltage (V)	24-26	26-28	27-29	28-30	28-30	30-35

- The basic advantage of automatic and semi-automatic welding under the flux layer of **EM-12K & EL12 welding wire** is to ensure the quality of the weld, which has uniformity, high productivity, and the ability to save welding wire.
- The **EM-12K & EL12** allows the use of **high welding amperage**, high heat source usefulness, and fully automated or fully automated operations that cause – maintain the arc – move the wire to the full length of the weld.
- **EM-12K & EL12** is a welding wire with **low carbon content**, medium manganese and silicon content, and extremely small sulfur and phosphorus impurities, creating welds with high strength and toughness.
- **EM-12K & EL12** is built with **high precision**, even wire direction, and is plated with a layer of high purity copper for preservation and stable soldering.

Mechanical composition of weld metal

Technical standard	Tensile strength (MPa)	Yield stress (MPa)	Elongation (%)	Impact resistance tenacity (J)
EM12K-CM 143 (F7A0)	483 min	400 min	22 min	27 min/-18°C
EM12K-CM 185 (F7AZ)	483 min	400 min	22 min	-
EM12K-CM501T (F7AZ)	483 min	400 min	22 min	-

SAW welding wire

EL-12

Classification:
AWS A5.17 EL12



Packing Specification

Net weight of spool(kg)	Net weight of big box (kg)
15-20-25-150-300-350	250-300-350-400

Chemical composition of wire (%)

C	Mn	Si	S	P
0.04-0.14	0.25-0.60	0.10 max	0.03 max	0.03 max

Mechanical composition of weld metal

Technical standard	Tensile strength (MPa)	Yield stress (MPa)	Elongation (%)	Impact resistance tenacity (J)
EL12-CM 143 (F6A0)	414 min	330 min	22 min	27 min/-18°C
EL12-CM 185 (F6AZ)	414 min	330 min	22 min	-
EL12-CM501T (F6AZ)	414 min	330 min	22 min	-

Size and recommended current (AC or DC)

Diameter (mm)	ø 1.6	ø 2.0	ø 2.4	ø 3.2	ø 4.0	ø 5.0
Welding Current (A)	200-300	300-350	350-400	420-460	480-520	550-650
Welding Arc Voltage (V)	24-26	26-28	27-29	28-30	28-30	30-35

PACKAGING OPTIONS

WELDING ELECTRODE

100PCS



1KG



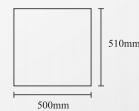
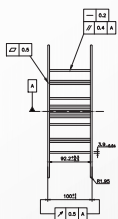
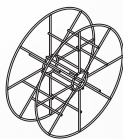
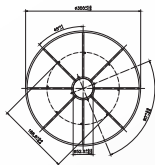
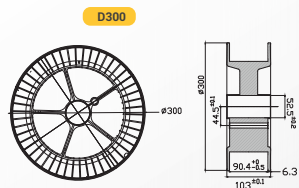
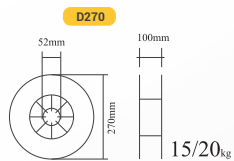
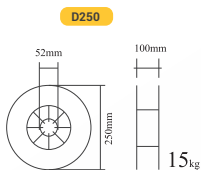
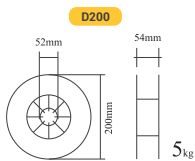
4KG



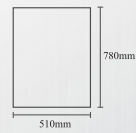
5KG



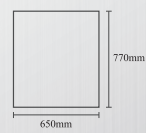
WELDING WIRE



125kg



250/300kg



400kg

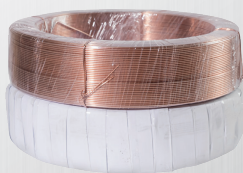
SAW WIRE



20kg/25kg



150kg



300kg



350kg



3 OTHERS

- 20 _____ Welding flux
- 23 _____ Steel nails - Steel wire

Welding flux CAMEL

CM-143

Standard:
AWS A5.17



Packing Specification

Net weight (kg)
25

Wire	Classification according to AWS A5.17
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EL12	F6A0
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EM12K	F7A0
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- **Camel CM-143 submerged arc welding flux** is produced according to OERLIKON's technology on modern equipment lines that provide a stable quality product.
- **CM-143 is a fluorine- Calcium - Silicate sintering flux.** In the welding process, in addition to covering and protecting the weld, this welding flux also adds an appropriate amount of silicon and manganese to improve the mechanical properties of the weld.
- **Welding flux CM-143** when welding produces less slag, reducing consumption.
- **It can be welded in DC or AC current**, which allows for high speed welding, good weld appearance, a stable arc, and flaky slag.
- **Welding flux CM-143** is heated and dried at a temperature of over 850°C, thus thoroughly reducing the water molecular to ensure that the weld does not have porosity. Also, because the amount of residual hydrogen in the weld is low, making the weld flexible.

Chemical composition of fluxes

$\text{SiO}_2 + \text{TiO}_2, \text{CaO} + \text{MgO}, \text{Al}_2\text{O}_3 + \text{MnO}, \text{CaF}_2, \dots$

Grain size (Mesh): 10-40

Welding flux CAMEL

CM-185

Standard:
AWS A5.17



Packing Specification

Net weight (kg)
25

Wire	Classification according to AWS A5.17
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EL12	F6AZ
------	------

EM12K	F7AZ
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- **Camel CM-185 submerged arc welding flux** is produced according to OERLIKON's technology on modern equipment lines that provide a stable quality product.
- **CM-185 is a Aluminate – Rutile sintering flux.** In the welding process, in addition to covering and protecting the weld, this welding flux also adds an appropriate amount of silicon and manganese to improve the mechanical properties of the weld.
- **Welding flux CM-185** when welding produces less slag, reducing consumption. It can be welded in DC or AC current, which allows for high speed welding, good weld appearance, a stable arc, and flaky slag.
- **Welding flux CM-185** is heated and dried at a temperature of over 850°C, thus thoroughly reducing the water molecular to ensure that the weld does not have porosity. Also, because the amount of residual hydrogen in the weld is low, making the weld flexible.

Chemical composition of fluxes

$\text{SiO}_2 + \text{TiO}_2, \text{Al}_2\text{O}_3 + \text{MnO}, \text{CaF}_2, \dots$

Grain size (Mesh): 10-40

Recommendations

- Store in clean dry place.
- Keep the bag sealed when not in use.
- Before welding operation, if moisture contamination is suspected from either improper storage condition or due to condensation, the flux must be redried as a 300°C to 350°C for 2 hours.

Welding flux CAMEL

CM-501T

Standard:
AWS A5.17



Packing Specification

Net weight (kg)
25

Wire	Classification according to AWS A5.17
EL12	F6AZ
EM12K	F7AZ

- **Camel CM-501T submerged arc welding flux** is produced according to OERLIKON's technology on modern equipment lines that provide a stable quality product.
- **CM-501T is a Aluminate – Rutile sintering flux.** In the welding process, in addition to covering and protecting the weld, this welding flux also adds an appropriate amount of silicon and manganese to improve the mechanical properties of the weld.
- **Welding flux CM-501T when welding produces less slag**, reducing consumption. It can be welded in DC or AC current, which allows for high speed welding, good weld appearance, a stable arc, and flaky slag.
- **Welding flux CM-501T is heated and dried at a temperature of over 850°C**, thus thoroughly reducing the water molecular to ensure that the weld does not have porosity. Also, because the amount of residual hydrogen in the weld is low, making the weld flexible.

Chemical composition of fluxes

$\text{SiO}_2 + \text{TiO}_2, \text{Al}_2\text{O}_3 + \text{MnO}, \text{CaF}_2, \dots$

Grain size (Mesh): 10-40

Welding flux GEMINI

GF-50

Standard:
AWS A5.17



Packing Specification

Net weight (kg)
25

Wire	Classification according to AWS A5.17
EL12	F6AZ
EM12K	F7AZ

- **Gemini GF50 submerged arc welding flux** is produced according to OERLIKON's technology on modern equipment lines that provide a stable quality product.
- **Welding flux GF50** when welding produces less slag, reducing consumption.
- **Welding flux Gemini GF50** is heated and dried at a temperature of over 850°C, thus thoroughly reducing the water molecular to ensure that the weld does not have porosity. Also, because the amount of residual hydrogen in the weld is low, making the weld flexible.
- **Applications:** thin plate single pass, applications without clean base material, high speed welding, particularly those applications that require a very nice bead appearance.

Chemical composition of fluxes

$\text{Al}_2\text{O}_3 + \text{TiO}_2, \dots$

Grain size (Mesh): 10-40

Recommendations

- Store in clean dry place.
- Keep the bag sealed when not in use.
- Before welding operation, if moisture contamination is suspected from either improper storage condition or due to condensation, the flux must be redried as a 300°C to 350°C for 2 hours.

Welding flux GEMINI

CM101

Standard:
AWS A5.17



Packing Specification

Net weight (kg)

25

Wire

Classification according to AWS A5.17

EH14

F7A6

EM12K

F7A(P)4

■ **Gemini CM101 submerged arc welding flux** is produced according to OERLIKON's technology on modern equipment lines that provide a stable quality product.

■ **Welding flux CM101** when welding produces less slag, reducing consumption.

■ **Welding flux Gemini CM101** is heated and dried at a temperature of over 850°C, thus thoroughly reducing the water molecular to ensure that the weld does not have porosity. Also, because the amount of residual hydrogen in the weld is low, making the weld flexible.

■ Applications: structural steel, high grade steel pipe, LPG tank, offshore, wind tower,...

Chemical composition of fluxes

CaO + MgO + CaF₂ + MnO, SiO₂, CaF₂...

Grain size (Mesh): 10-40

Welding flux GEMINI

CM501 Pro

Standard:
AWS A5.17



Packing Specification

Net weight (kg)

25

Wire

Classification according to AWS A5.17

EL12

F6A2

EM12K

F7A2

■ **Gemini CM501 Pro submerged arc welding flux** is produced according to OERLIKON's technology on modern equipment lines that provide a stable quality product.

■ **Gemini CM501 Pro is a Aluminate – Rutile sintering flux.** In the welding process, in addition to covering and protecting the weld, this welding flux also adds an appropriate amount of silicon and manganese to improve the mechanical properties of the weld.

■ **Welding flux CM501 Pro** when welding produces less slag, reducing consumption.

■ **Welding flux CM501 Pro** is heated and dried at a temperature of over 850°C, thus thoroughly reducing the water molecular to ensure that the weld does not have porosity. Also, because the amount of residual hydrogen in the weld is low, making the weld flexible.

■ Applications: structural steel, high grade steel pipe, bridge, vessel,...

Chemical composition of fluxes

SiO₂ + TiO₂, CaO + MgO, Al₂O₃ + MnO, CaF₂...

Grain size (Mesh): 10-40

Recommendations

- Store in clean dry place.
- Keep the bag sealed when not in use.
- Before welding operation, if moisture contamination is suspected from either improper storage condition or due to condensation, the flux must be redried as a 300°C to 350°C for 2 hours.

Steel nails

NIKKO



China Standard:
YB/T 5002 - 93
America Standard:
SAE F1667 - 00

- Used for wood, pallet, leather shoes,...
- Used by low carbon steel with smooth surface, no rust, no defects. Head of nails is round, beveled, not tapered. Head of nails is sharp.

Specification

No.	Code	Length (L) mm	Dia. (d) mm	Pcs/kg	TS (Mpa)
1	N20	20±0.75	1.6±0.05	3,520–3,626	≥826
2	N25	25±0.75	1.8±0.05	1,940–1,980	≥826
3	N30	30±1.0	2.0±0.05	1,300–1,340	≥826
4	N40	40±1.0	2.3±0.05	768–808	≥826
5	N50	50±1.0	2.8±0.05	390–433	≥826
6	N60	60±1.2	3.1±0.05	285–321	≥826
7	N70	70±1.2	3.4±0.05	200–220	≥826
8	N80	80±1.2	3.9±0.05	125–150	≥745
9	N100	100±1.2	4.5±0.05	70–80	≥745
10	N120	120±1.5	5.0±0.05	50–60	≥745



Drawing steel wire

NIKKO



- Used to tie steel: Flat steel, twisted steel.
- The thickness of the thin oxidelayer is firmly attached to the steel wire.

Packing Specification

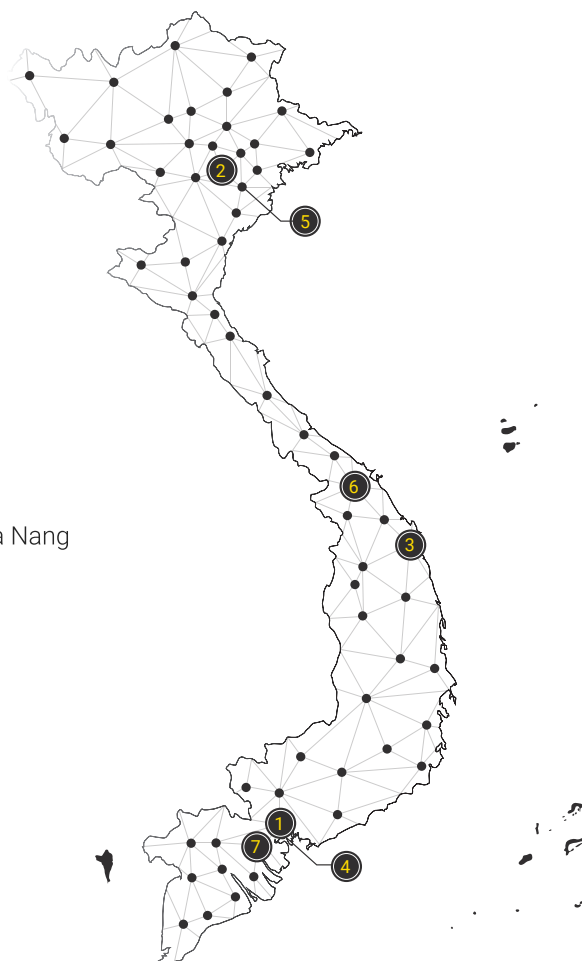
Size	Dia. (mm)	Net weight (kg)	Coils' dimension
ø 1.0	1.0±0.05	50	300 x 500 x 100

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SUBSIDIARIES

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- 3 **Kim Tin Da Nang Corporation**
- Street No.6, Hoa Khanh industrial park, Lien Chieu District, Da Nang
- 4 **nPL Logistics Corporation**
- 10-12 Street No 9, Tan Tao Industry, Binh Tan
- 5 **Kim Tin Hung Yen Corporation**
- D3, D Area, Pho Noi A Industry, Van Lam, Hung Yen
- 6 **Kim Tin Quang Tri Corporation**
- Quan Ngang Industry, Gio Linh, Quang Tri
- 7 **Kim Tin Long An Corporation**
- Kien Thanh, Long Cang, Can Duoc, Long An



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