Shandong Zhuo Tai Import and Export Co., Ltd. has been specializing in the production of aluminum ingots, aluminum sheets, aluminum bars, aluminum wires, aluminum profiles (6063), and copper cathodes, as well as the sales of magnesium ingots, lead ingots, zinc ingots, antimony ingots, and metal scrap for over 15 years.

We operate a production facility with an annual capacity of 120,000 tons. Our company is supported by a team of professional foreign trade experts who have long been engaged in import and export operations, bringing extensive expertise, dedication, and dynamism to our business.

Our customers are located across the globe, including regions such as East Asia, Southeast Asia, North America, Europe, and Australia.

catalog:

（1）

Metal ingot: Zinc ingot
Lead ingot
Aluminum ingot
Magnesium ingot
Antimony ingot
Tin ingot

Alloy metal: aluminum alloy ingot
Aluminum alloy bar
Zinc alloy ingot
Silicon manganese alloy
Wolfram-cobalt hard alloy

Scrap: copper wire scrap
Aluminum wire scrap

Powder: Cobalt powder
Nickel powder

（2）

Aluminum: aluminum ingot
Aluminum bar
Aluminum scrap
Aluminum alloy

Zinc: zinc ingot
Zinc alloy

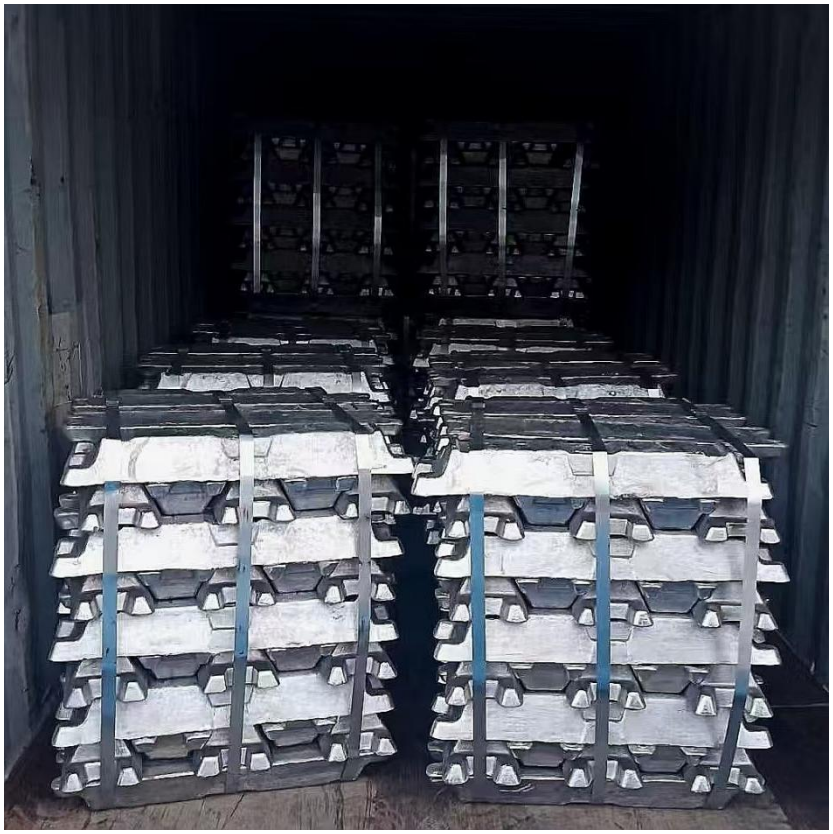
Copper: copper cathode
Copper wire scrap

Magnesium: magnesium ingot
Lead: lead ingot
Cobalt: cobalt powder
Cobalt sheet metal
Wolfram-cobalt hard alloy
Nickel: nickel powder
Nickel sheet metal
Silicon manganese alloy

Product parameter：

The Minimum Order Quantity of each product is 25 Tons.

Aluminum ingot A7：FOB$3200 PER TON



Chemical Composition: al
Al (Min): 99%-99.9%
Place of Origin: China (Mainland)
Appearance: silvery white
Packaging:
About 25Kg /Ingot, Packed in wooden case, Net weight 1000Kg/ Case,or as customer's requirements.

Aluminum ingot for remelting is produced by molten salt electrolysis method using alumina and cryolite. Products meet the national standard GB/T1196-2002. The surface of ingot is clean and smooth.

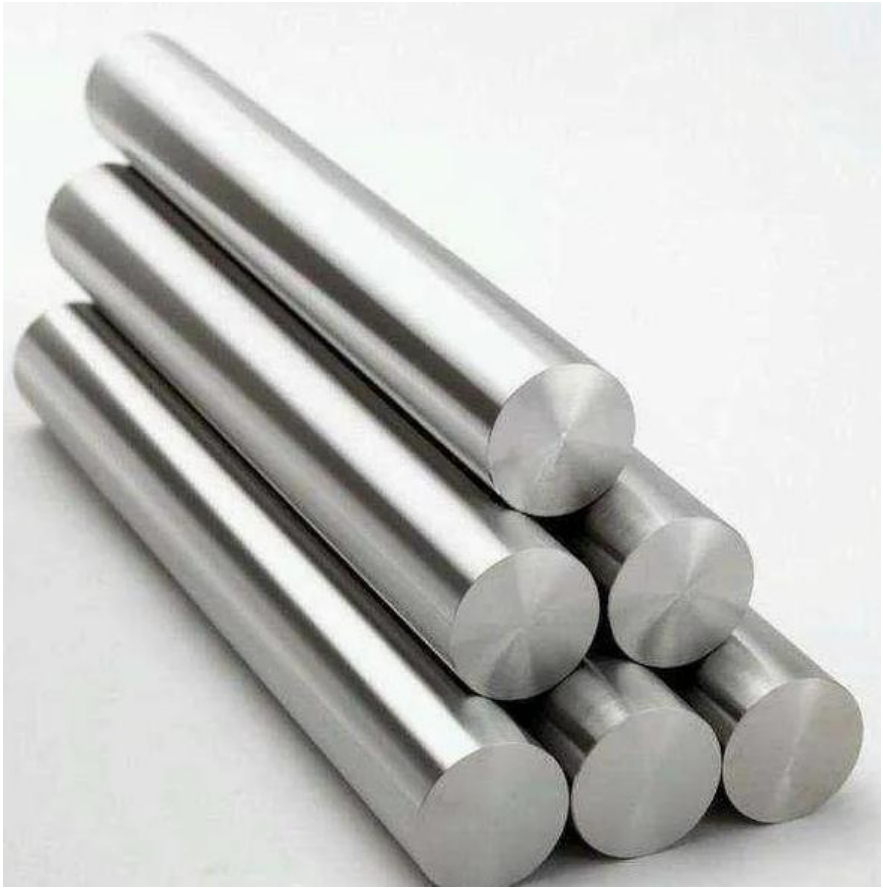
Applications:

1. mainly used for melting ingot
2. discontinuous melting with scrap
3. easy control and operation
4. fast melting
5. Used for industry such as automobile,pinning and weaving,electron broadly and so on

The main models are as follows: AL99.90, AL99.85, AL99.70A, AL99.70, AL99.60, AL99.50, AL99.00

Grade	Chemical Composition %									
	Al≥	impurities ≤								
		Si	Fe	Cu	Ga	Mg	Zn	Mn	others	Sum
Al99.9	99.90	0.50	0.07	0.005	0.02	0.01	0.025	-	0.010	0.10
Al99.85	99.85	0.80	0.12	0.005	0.03	0.02	0.030	-	0.015	0.15
Al99.7	99.70	0.10	0.20	0.010	0.03	0.02	0.030	-	0.030	0.30
Al99.6	99.60	0.16	0.25	0.010	0.03	0.03	0.030	-	0.030	0.40
Al99.5	99.50	0.22	0.30	0.020	0.03	0.05	0.050	-	0.030	0.50
Al99.00	99.00	0.42	0.50	0.020	0.03	0.05	0.050	-	0.050	1.00

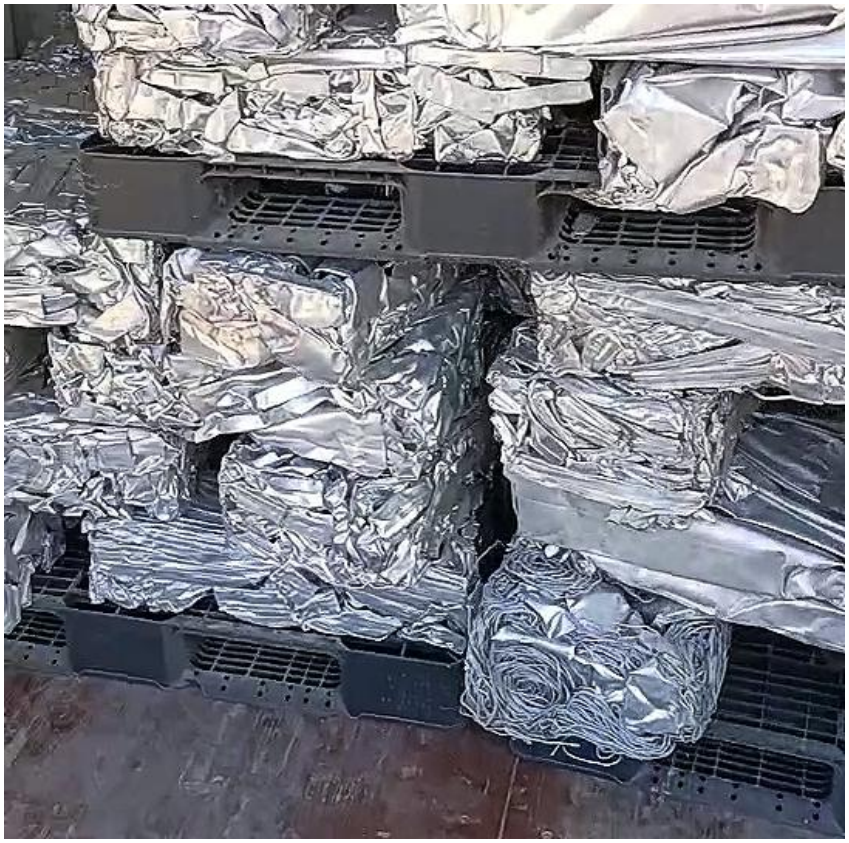
Aluminum bar: FOB$3500 PER TON



Application：
Aluminum bar can be used in aviation,aircraft construction,rivet, trailer wheel,the propeller components,metallic building material, forging material,welding material,etc.

Grade	6063, 6061, 2024, 7075 etc
Round Bar Extruded	φ10mm-φ410mm
Round Bar Drawn	φ1.0mm-φ10.0mm
Square & Flat Bar	8mmx8mm-570mmx10mm
Angle Bar	8mmx8mmx1mm-280mmx40mmx4mm
U Bar	10mmx10mmx1mm-110mmx260mmx16mm

Aluminum scrap 6063: FOB$2400 PER TON



Density: 2.702g/cm3

Melting point: 660.37℃

Boiling point: 2467.0℃

Color: silver white

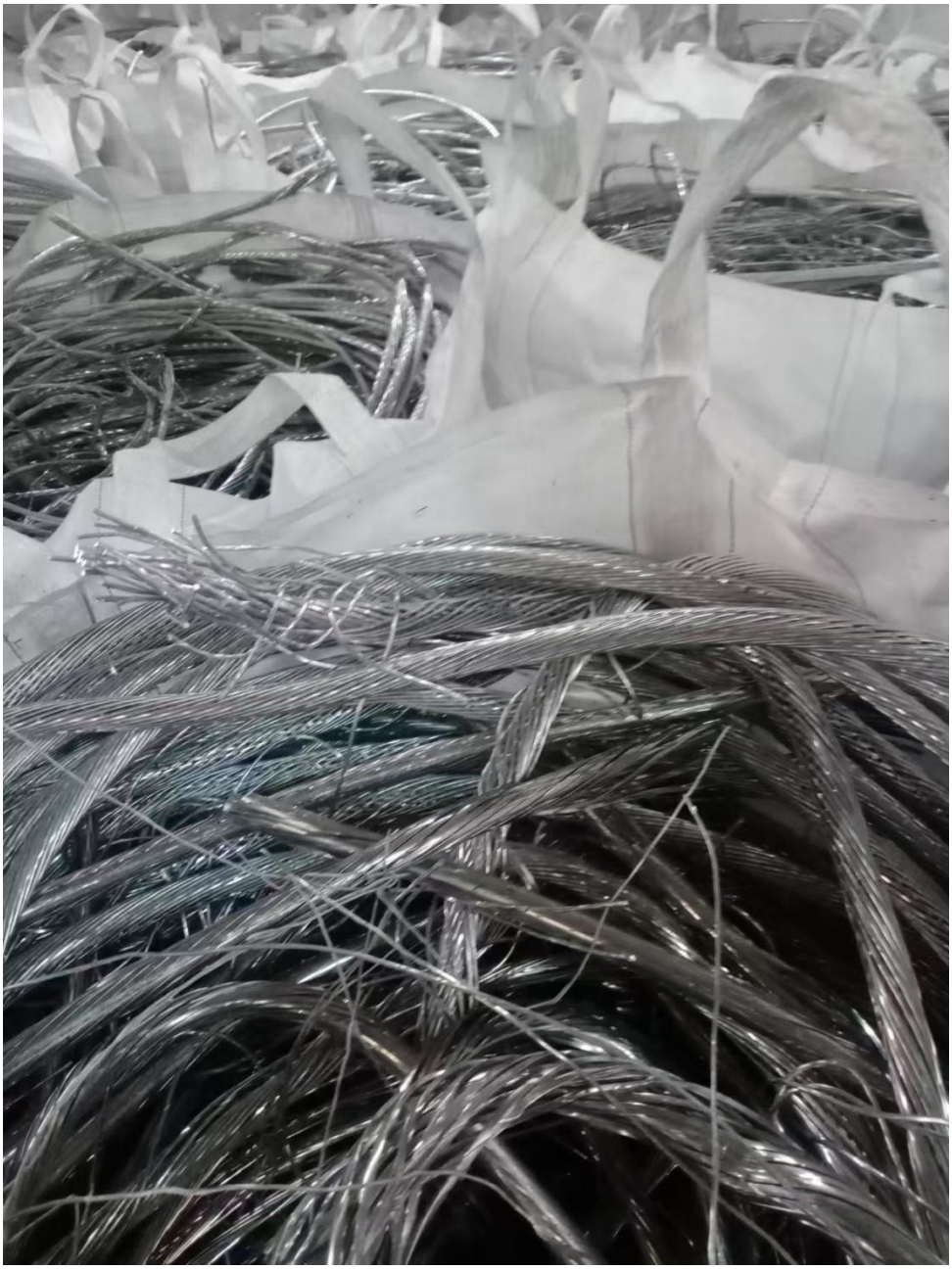
WEIGHT :15-30KG

ITEM	STANDARD %	TEST RESULT %
Si	6.5-7.5	6.73
Fe	0.12 max	0.047
Cu	0.1 max	0.0022
Mn	0.05 max	0.013
Mg	0.3-0.45	0.381
Zn	0.05 max	0.016
Ti	0.2 max	0.14

Al	Balance	92.62

Aluminum scrap 6063	Al content 98.49%
Aluminum scrap 6061	95%
Aluminum wire scrap	99.76%

Aluminum wire scrap: FOB$2500 PER TON



CERTIFICATE OF ANALYSIS

BATCH NO:YE-250228
DATE:02,28,2025

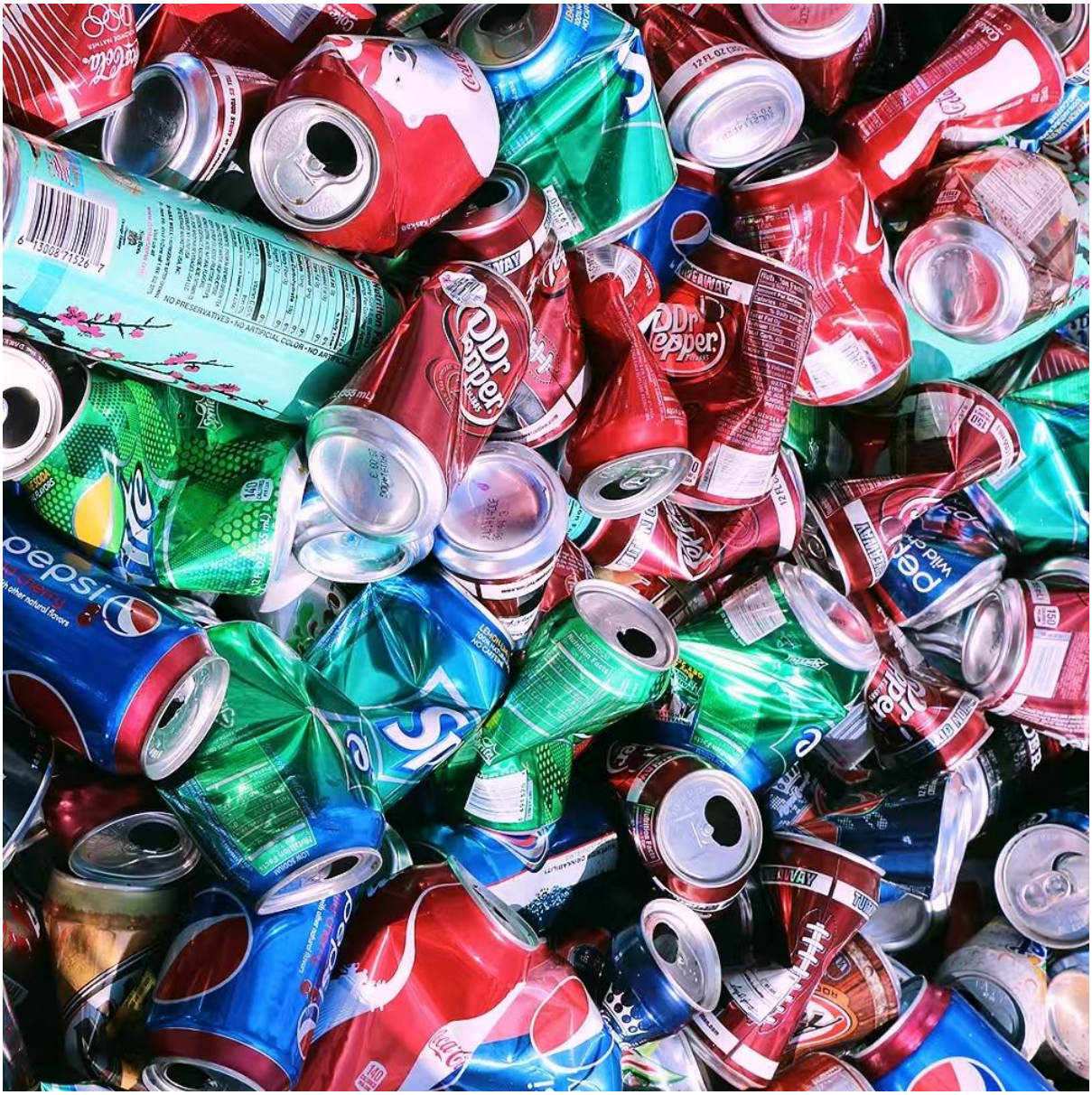
NAME	Aluminum wire	
PRODUCTION DATE	2025.02.28	
ANALYSIS RESULT		
ITEM	VALUE	RESULT(%)
Al	Margin	99.76%
Si	0.10-0.30%	0.10%
Cu	0.10%Max	0.02%
Mg	0.10%Max	0.03%
Zn	0.10%Max	0.045%
Mn	0.10%Max	0.01%
Ti	0.10%Max	0.005%
Cr	0.10%Max	0.01%
Fe	0.02%Max	0.015%
Sum	0.01%Max	0.005%

INSPECTOR:WU NING

R—INSPECTOR:CHENG

山东翼恩进出口有限公司 质量专用章

Aluminum ubc scrap: FOB$1850 PER TON


Dr Pepper
pepsi

CERTIFICATE OF ANALYSIS

BATCH NO:YE-250110
DATE:01,10,2025

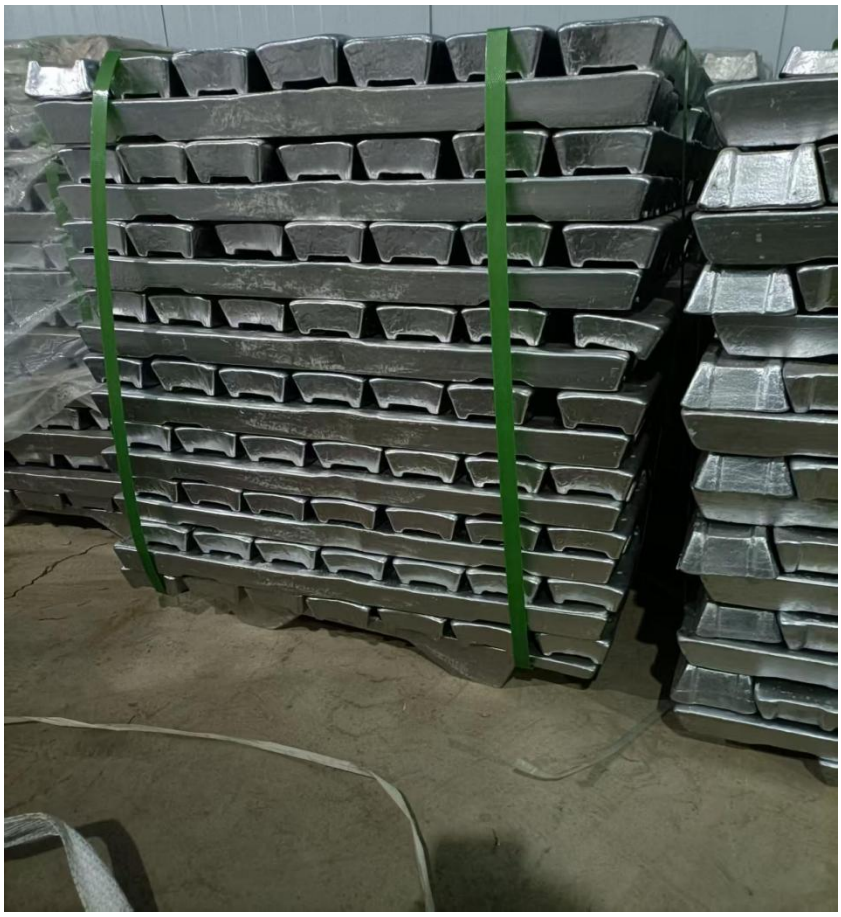
NAME	Aluminum UBC cans	
PRODUCTION DATE	2025.01.10	
ANALYSIS RESULT		
ITEM	VALUE	RESULT(%)
Al	**Margin**	95.32%
Si	0.20-0.60%	0.57%
Cu	0.50%Max	0.40%
Mg	1.50-2.50%	1.90%
Zn	0.10%Max	0.10%
Mn	0.50%Max	0.45%
Ti	0.20%Max	0.20%
Cr	0.10%Max	0.10%
Fe	0.75%Max	0.70%
Sum	0.50%Max	**0.26%**

INSPECTOR:WU NING

R—INSPECTOR:CHENG

山东翼恩进出口有限公司 质量专用章

Aluminum alloy ingot: FOB$3300 PER TON



Weight: 6KG

Grade: LYD112, ZLD101, ZLD101A, ZLD102, ZLD106, ZLD107, ADC10, ADC12, AC4B, A3870, 51K, A365 etc.

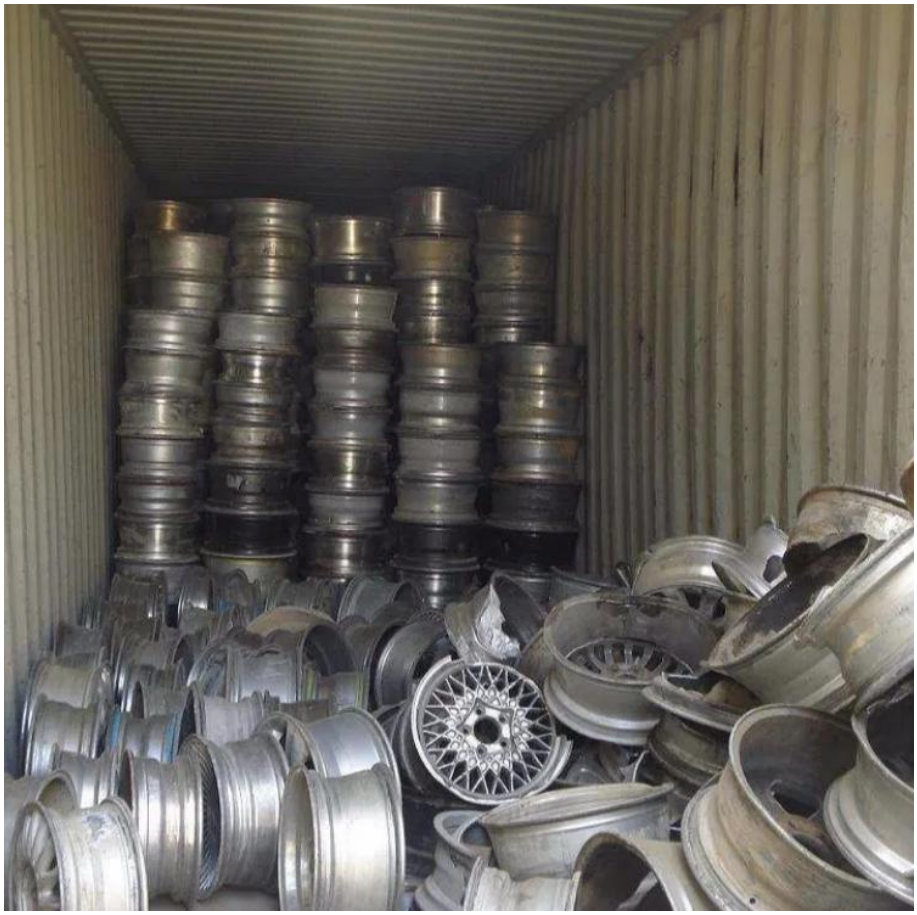
Technical specification:

Due to many grades, please feel free to contact us if you want to know the detailed specification.

Packing: Approx 500~900kg each bundle strapped by steel bands without any wooden pallets, total 13 layers including foot ingots, no double stacked bundles.

	Chemical composition %								
	impurities ≤								
Number	Cu	Si	Mg	Fe	Zn	Mn	Ni	Sn	Al
ADC12	1.5-3.5	9.6-12	0.3	0.9	1.0	0.5	0.5	0.3	>86

Aluminum alloy wheel scrap: FOB$2400 PER TON



Element 元素	Al 铝	Si 硅	Cu 铜	Mg 镁	Zn 锌
Result,(ppm)	98.32%	0.37%	0.09%	0.60%	0.10%
Element	Mn 锰	Ti 钛	Cr 铬	Fe 铁	--
Result,(ppm)					
元素					

Zinc ingot：FOB$3200 PER TON

Appearance:
Silver white lustrous metal;
Can react with acids, soluble in alkaline solution

packing sizes :
length 16 inch
width 08 inch
height 1.75 inch

WEIG
HT:25
KG
Usag
e:

1. Mainly used for die-casting alloy battery industry
2. Pharmaceutical / rubber industry
3. Chemical industries zinc and other metal alloy plating coating industry in applied widely.

Brand	Chemical									
	Zn(≥)	Impurity(≤)								
		Pb	Cd	Fe	Cu	Sn	Al	As	Sb	Totsal

Zn99.995	99.995	0.003	0.002	0.001	0.001	0.001	0.001	--	--	0.005
Zn99.99	99.99	0.005	0.003	0.003	0.002	0.001	0.002	--	--	0.01
Zn99.95	99.95	0.03	0.01	0.02	0.002	0.001	0.01	--	--	0.05
Zn99.5	99.5	0.45	0.01	0.05	--	--	--	0.005	0.01	0.5
Zn98.5	98.5	1.4	0.01	0.05	--	--	--	--	--	1.5

Zinc alloy ingot: FOB$3450 PER TON

Zinc alloy ingot Zamak #2/#3/#5 Molecular Formula: Zn

Zn (purity): 98.7%-99.995% Molecular Weight: 65.39

Density: 7.14(g/cm3)

Application: Zamak #2:Used to have special requirements for mechanical properties, high hardness requirements, dimensional accuracy requirements of the general mechanical parts

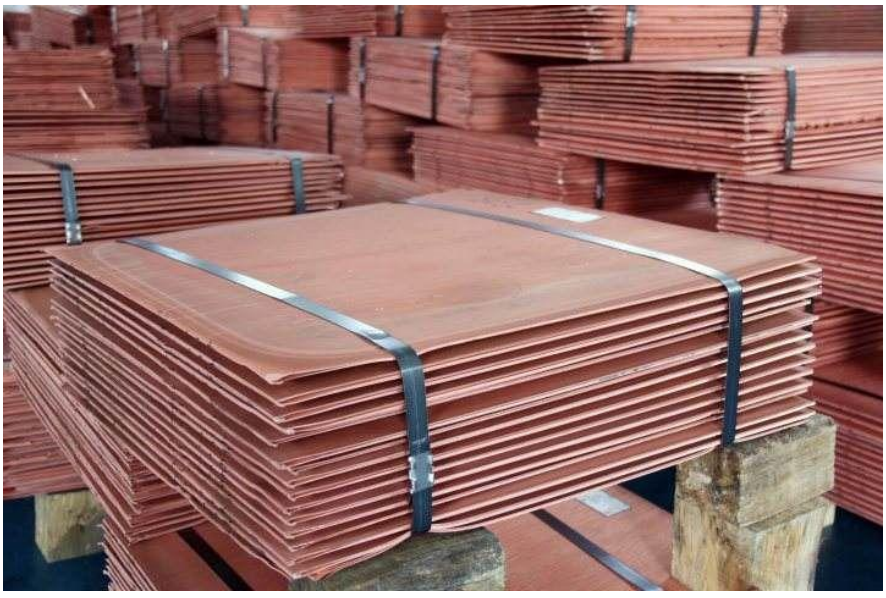
Zamak #3:Good fluidity and mechanical properties. Used in castings with low mechanical strength requirements

Zamak #5：Good fluidity and good mechanical properties. Used in castings with certain requirements for mechanical strength.

Zinc ingot (GB/T470-1997)										
MARK	Zn≥	Pb	Cd	Fe	Cu	Sn	Al	As	Sb	Total
Zn99.995	99.995	0.003	0.002	0.001	0.001	0.001	--	--	--	0.005
Zn99.99	99.99	0.005	0.003	0.003	0.002	0.001	--	--	--	0.01
Zn99.95	99.95	0.02	0.02	0.01	0.002	0.001	--	--	--	0.02
Zn99.5	99.5	0.3	0.07	0.04	0.002	0.002	0.01	0.005	0.01	0.5
Zn98.7	98.7	1	0.2	0.05	0.005	0.002	0.01	0.01	0.02	1.3

Chemical composition (EN1774) Guaranteed analysis (%)	ZAMAK5 ZL5/ZL0410 ZNAL4Cu1
Al	3.8-4.2
Cu	0.7-1.1
Mg	0.035-0.06
Pb	≤0.003
Fe	≤0.020
Cd	≤0.003
Sn	≤0.001
Si	≤0.02
Ni	≤0.001

Copper cathode： FOB$11500 PER TON



1.purity 99.990%-99.997%

2.Weight of each sheet: 125kgs (+/- 1%)

3.Net weight of each pallet: 2mts (+/- 1%)

4.Min. weight in each container: 20mts approx.

5.Gross weight of each container: 22.20mts approx.

6. Dimensions: 914*914*12mm

ELEMENTS		VALUE	ELEMENTS		VALUE
Copper	Cu	99.97% Min.	Silica	Si	0.3ppm Max.
Cobalt	Co	0.2ppm Max.	Bismuth	Bi	0.1ppm Max.
Lead	Pb	0.2ppm Max.	Tellurium	Te	0.05ppm Max.
Iron	Fe	2ppm Max.	Silver	Ag	10ppm Max.
Aluminum	Al	0.5ppm Max.		Se	0.3ppm Max
Manganese	Mn	0.1ppm Max.		S	4ppm Max.
Nickel	Ni	0.2ppm Max.		MG	0.4ppm Max.
Antimony	Sb	0.1ppm Max.		O2	0
	AS	0.1ppm Max.	-		

Copper wire scrap:FOB$9300 PER TON

1bag about 1 ton bag size: 1 × 1m

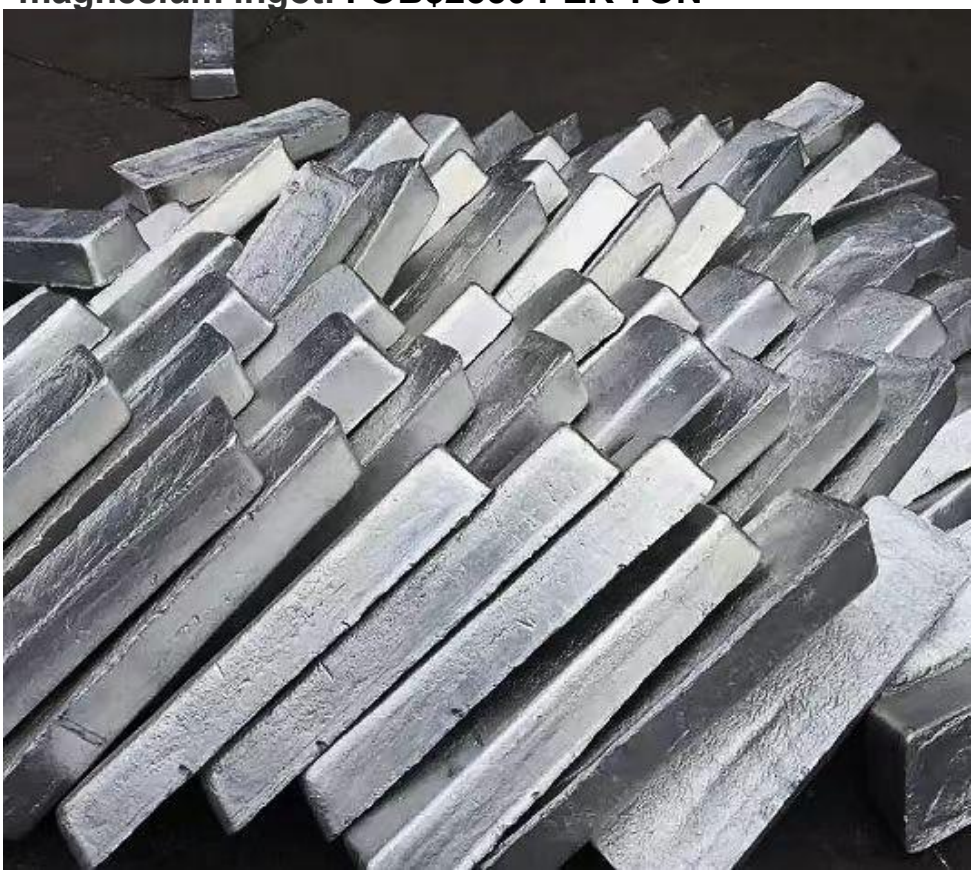
Wire diameter: 0.20mm, 0.25mm, 0.30mm

Weight: 3kg, 5kg, 7kg, 15kg, 20kg

Purity:99.95% min

Name	Copper wire scrap (Millberry) 99.78%	
Item	Standard (%)	Results(%)
Purity (%)	≥99.78	99.9
Carbon	0.03	0.03
Coblet	＜0.001	0.0009
Iron	0.005	0.005
Phosphorus	＜0.01	0.009
Sulphur	＜0.01	0.009
Zinc	0.003	0.003

magnesium ingot: FOB$2550 PER TON



Packing:

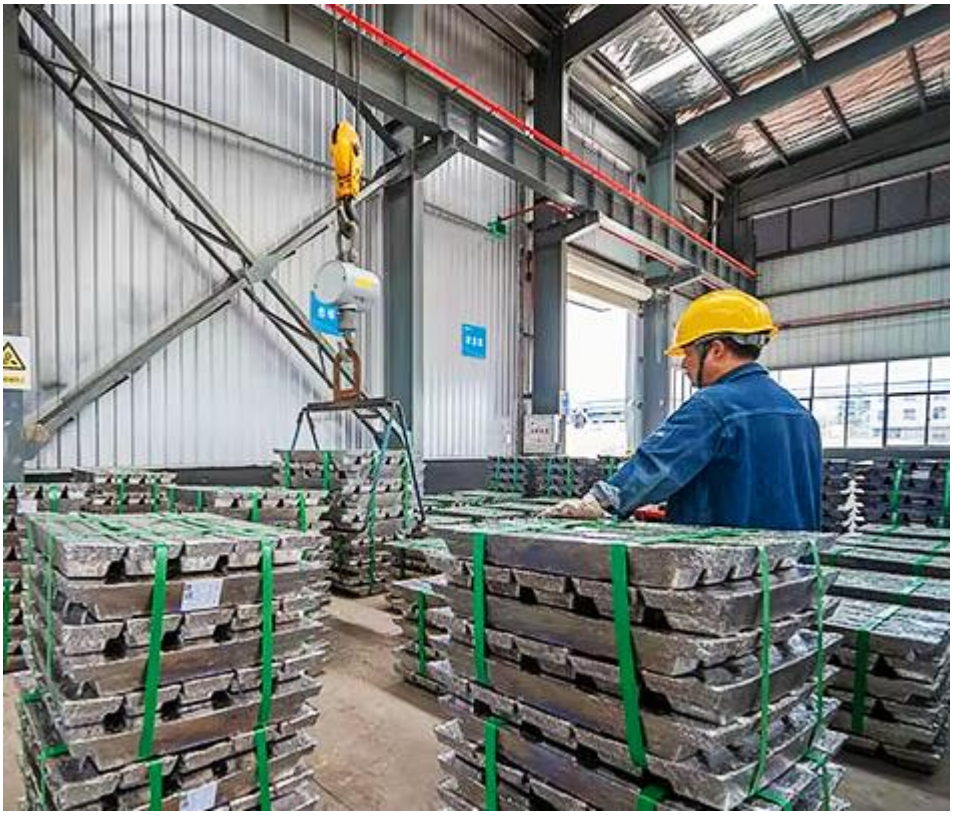
About 1000Kgs/Mg pallet covering with plastic bag, or according to customer's requirement.

Ingot weight：

15Kg+/- 0.5kg; 7.5+/-0.5Kg ; 300g+/-50g

Mg Ingot									
Brand	Chemical composition								
	Mg	Fe	Si	Ni	Cu	Al	Cl	Mn	others
Mg99.98	99.98	0.002	0.003	0.002	0.0005	0.004	--	0.002	0.02
Mg99.96	99.96	0.004	0.004	0.0002	0.002	0.006	0.003	0.003	0.04
Mg99.95	99.95	0.004	0.005	0.0007	0.003	0.006	0.003	0.01	0.05
Mg99.9	99.90	0.04	0.01	0.001	0.004	0.02	0.005	0.03	0.10
Mg99.8	99.80	0.05	0.03	0.002	0.02	0.05	0.005	0.06	0.20

Lead ingot： FOB$2700 PER TON



Test item	Pb	Sb	As	Sn	Cu	Bi	Fe	Ni	Ag	Zn
Standard	99.97	0.001	0.001	0.001	0.001	0.025	0.001	0.001	0.003	0.0005

	min.									

Size : 645*128*90mm

Packing: lead ingot was wrapped by galvanized steel belt, 25 pcs per bundle, about 1200kgs per bundle.

Application:

1. lead-acid storage batteries.
2. Ammunition, cable sheathing and building construction materials
3. Counterweights, bettery clamps
4. Cast products such as: bearing, ballast, gaskets, type metal etc.

Cobalt powder:

Cobalt oxide:
Density: 6.45/cm3

molecular weight: 74.93
Melting point: 1935 ℃
CAS NO.: 1307-96-6
Package: 25kg/drum

content	I Grade	II Grade
Co %≥	72	72
Ni %≤	0.05	0.1
Fe %≤	0.05	0.1
Mg %≤	0.03	0.05
Ca %≤	0.03	0.05
Mn %≤	0.03	0.05
Zn %≤	0.03	0.05
Cu %≤	0.03	0.05
Cd %≤	0.005	0.005
Insoluble Materials	0.1	0.2
Degree of fineness	325Mesh	325Mesh

High purity cobalt powder:

High Purity Cobalt Powder						
Co	Fe	Ni	Al	Si	Ca	Mg
99.95%	0.0012%	0.001%	0.001%	0.005%	0.002%	0.002%

Packing: 20kg/25kg /30kg per barrel

Color: Gray Black

Application:

1, cemented carbide ,
2,diamond tools,
3,high temperature alloys,
4,magnetic materials etc.
5, producing Chemical products ,such as rechargeable battery, industrial blasting agents, rocket fuel, and medicine.

Cobalt sheet ：

CAS NO.:7440-48-4
Density: 8.9g/cm3
Melting point: 1495°C
Size: thickness: 0.025mm min
Width: 600mm max

Cobalt sheet metal		
ITEM	VALUE	RESULT(%)
Purity	Co: 99.98	Co: 99.98
C	0.005	0.005
S	＜0.001	＜0.001
Mn	0.00038	0.00038
Fe	0.0049	0.0049
Ni	0.002	0.002
Cu	0.005	0.005
As	＜0.0003	＜0.0003
Pb	0.001	0.001
Zn	0.00083	0.00083
Si	0.001	0.001
Cd	0.0003	0.0003
Mg	0.00081	0.00081
P	＜0.001	＜0.001
Al	＜0.001	＜0.001
Sn	＜0.0003	＜0.0003
Sb	＜0.0003	＜0.0003
Bi	＜0.0003	＜0.0003

Wolfram-cobalt hard alloy：

Constitute: wolfram carbide and cobalt metal

Application:

1.It can be used as cutters to cut cast iron, nonferrous metals, plastics, chemical fiber, stainless steel and high Manganese steel, etc.,

2. make drilling tools, mining tools, crushing tool,measuring gauges, wear parts, cylinder liners, precision bearings, nozzles and metal molds, etc.

Nickel powder:

Color: Grey, Irregular shape powder

Packing: in plastic bar or cloth bag, then load in iron drums.

Application:

1. It used for making non-ferrous alloy, making high temperature resistant materials and magnetic materials.
2. As chemical reaction hydrogenation catalyst.

Nickel powder					
Ni	Si	Fe	Mn	Mg	Pb
≥99.5	≤0.005	≤0.006	≤0.002	≤0.002	≤0.002
Al	Sn	O	Zn	Al	Sn
≤0.005	≤0.001	≤0.16	≤0.002	≤0.005	≤0.001

Nickel sheet metal:

Purity:99.97% min.

Color: sliver white metal

Grade: NI200, Ni201, N4, N6

Density: 8.9g/cm3

Melting point: 1455℃

Boiling point: 2730℃

Nickel sheet metal

Item	Value (%)
Purity (%)	99.97
Cobalt	0.050
copper	0.001
carbon	0.003
iron	0.0004
sulfur	0.023
arsenic	0.001
lead	0.0005
zinc	0.0001

Silicon manganese alloy:

1.Chemical name: manganese silicon
2.Molecular weight: 54.93
3.Silicon manganese alloy is a kind of bulk solid with metallic luster and it has the specific gravity of 6.0-6.4, melting point of 1517℃, boiling point of 2378℃, melting heat of 7.37KJ/mol and evaporative heat of 22500KJ/mol

Brand	Mn	Si	C≤	P≤			S≤
				I	II	III	
FeMn64 Si27	60~67	25~28	0.5	0.10	0.15	0.25	0.04
FeMn67 Si23	63~70	22~25	0.7	0.10	0.15	0.25	0.04
FeMn68 Si22	65~72	20~23	1.2	0.10	0.15	0.25	0.04
FeMn64 Si23	60~67	20~25	1.2	0.10	0.15	0.25	0.04
FeMn68 Si18	65~72	17~22	1.8	0.10	0.15	0.25	0.04
FeMn64 Si18	60~67	17~20	1.8	0.10	0.15	0.25	0.04
FeMn68 Si16	65~72	14~17	2.5	0.10	0.15	0.25	0.04
FeMn64 Si18	60~67	14~17	2.5	0.20	0.25	0.30	0.05