



Aluminum

Master alloys • Grain Refiners • Alloying Additives • Casting Aluminum Ingot

K·TEK INTERNATIONAL

Aluminum

Introduction: K-Tek International is an industry leader of various aluminum master alloys, castings aluminum alloy ingot & fluxes. Our products are exported to many countries and used in various metals applications. We strive to promote the use of aluminum as the “material of choice” versus competitive metals. We utilize our innovative technology & products to address the challenges we face in the metals industry today. Our clients are the forefront of our company and we make every effort to provide the best service possible.

Master Alloys:

Name	Main	Other elements (max%)					
		Cu	Si	Mn	Fe	Ni	other
AlTiB	5%Ti, 1%B 3%Ti,0.2%B	0.02	0.2	0.02	0.3	0.04	0.03
AlSr	10%Ti	0.05	0.3	0.03	0.3	/	0.03
AlSr10	10%Sr,20%Sr	0.05	0.2		0.3		0.03
AlMn	10%Mn,25%Mn	0.02	0.3	/	0.4	/	0.03
AlSi	10,20,50%Si	0.03	/	/	0.4	/	0.05
AlSrTiB	10%Sr, 1%Ti, 0.2%B	0.02	0.3	/	0.3	/	/
AlRE10	10%RE		0.2		0.3		0.03
AlFe	20%Fe	/	0.2	/	/	/	/
AlB	3%, 4%B		0.25		0.3		
AlCu	40%Cu		0.40	0.30	0.45		

Grain Refiners

Our alloys Al5Ti1B are widely used as the grain refiner in manufacture aluminum alloy casting, profile, sheet, foil and cables. By adding our products, it can enhance the mechanical property, improve homogeneity and makes a uniform distribution of alloy elements.

Grain Hardeners: These aluminum based alloys are used to increase or improve the overall property of the metal. These metals are formed at low temperatures thus minimizing dross formation and solubility of hydrogen.

Aluminum Boron: to remove transition metal impurities from aluminum melts in the production of high electrical conductivity wire & cable, offering the following benefits -cost effective addition -high concentration available -ease of addition -precise weight -high metallurgical cleanliness

Aluminum Strontium: hypoeutectic and eutectic modification of Al-Si casting alloys

Aluminum Manganese: Aluminum-manganese is currently being evaluated as a replacement for cadmium plating. Aluminum-manganese has potential for use in high strength steel applications where other electroplated cadmium alternatives such as tin-zinc and zinc-nickel have concerns with environmentally assisted cracking. Aluminum-manganese should prove to be much more affordable than ion vapor deposition and physical vapor deposition processes

Forms:

- Waffle form: About 5kg 6kg 7.5kg 8kg/Waffle
- Small Ingot: About 200g 400g 500g
- Rod: Dia 95mm, length 500 mm,

Packing:

- Packed in carton or pallet.
- Special package can be made according to request of customer.
- These are available in various forms, shapes, sizes, per the customer’s specifications.



Casting Aluminum Ingot **Standard Quality**

We produce the products to the standards below.

- The American aluminum industry standard (AA)
- The China National standard (GB)
- The Japanese industry standard (JIS)
- The norme francais nv (NF)
- The German standard (DIN), etc.

Product List:

AC2A,AC2B,AC2C,AC4A,AC4B,AC4C

AC3AM, A380

ADC-10

ADC-12

B390(ADC14)

A356

AlSi9Cu3,AlSi12Cu1

6063,6061



Element additive	Type	Function and characteristics
Titanium additive	75%,80%,85%	It is used for element addition of nonferrous metal alloys. It melts fast when putting into the melt under normal melting temperature (usually less than 10 minutes. It is simple for use and the recovery rate element in additive is more than 90%)
Iron additive	75%,80%,85%	
Copper additive	75%,80%,85%	
Silicon additive	75%,80%,85%	
Chrome additive	75%,80%,85%	
Nickel additive	75%,80%,85%	
Zirconium additive	10%,20%,75%	
Zinc additive	75%,80%,85%	
Fast melt silicon	95%, 740C low temperature fast melting	
Manganese additive	75%,80%,85%	

It is applicable to nonferrous metal plate, strip, foil, profile, bar,wire, cable and nonferrous metal brand alloy preparation industry.



Alloying additives

Product abstract: Used for elements-adding into alloys.Can be added in molten bath directly at suitable temperature. smelting easily, less than 10 minutes for Fusible Silicon and less than 5 minutes for the rest normally. Simple and convenient to use. The elements recovery rates are usually higher than 95%. ZS-Ti75 and ZS-Zr20 can be used for grain-refining too. Used for elements-adding into alloys.Such as : Manganese additive • Titanium additive • Iron additive • Nickel additive • Chromium additive Copper additive • Zirconium additive • Silicon additive • Fusible Silicon

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