

TIEGU

Company And Product Introduction

◀◀◀ Full-Chain Product Service Provider For The Foundry Industry ▶▶▶

安徽铁谷信息科技股份有限公司
ANHULTIEGUINFORMATION TECHNOLOGY CO.,LTD

CONTENTS

目录

Make casting easier III

Tiegu Introduce	03
Pig Iron Business Unit	04
Alloy Auxiliary Materials	07
Casting Business Unit	14
Certification	19
Workshop Show	20
Global Market Distribution	22
Contact Information	23

Tiegu, a comprehensive enterprise with over 15 years in China's foundry industry, is a key hub linking the global foundry market. It offers global buyers full-chain pig iron and casting solutions with profound industrial accumulation and innovative philosophy.

► In pig iron operations, Tiegu offers foundry, ductile, steelmaking and high-purity pig iron. Partnering with top domestic ironworks, it has built a full industrial chain spanning mining, ore dressing, smelting, casting and machining, achieving 1.5 million tons of annual output and securing market position with stable quality.



► Casting is another core business of Tiegu. Leveraging its in-house pig iron smelting advantage, it cuts raw material costs significantly to offer cost-effective products like ductile iron pipes, auto parts and precision mechanical components. With advanced casting techniques and strict quality control, it ensures both mass-produced standard parts and custom complex components meet leading industry standards.

As operator of “Tiegu Network” – a key platform in China’s foundry industry—we partner with over 3,000 top foundry enterprises on the platform. Integrating resources, we offer competitive collaborative quotes, helping buyers select the best in China’s market.

Pig Iron Business Unit

Make casting easier III

Constant silicon, low sulfur

The company integrates traditional ironmaking with modern technology, adopting new equipment, technologies and processes like automatic self-compensation, hot blast stove preheating, silicon control and desulfurization. This ensures ductile iron's silicon content fluctuates within ± 0.05 of the standard and sulfur content below 0.020.

Low titanium, low phosphorus, low vanadium

To reduce titanium, phosphorus, and vanadium content in ductile iron, the key lies in selecting high-quality iron ore concentrate powder for smelting. Our company's premium ductile iron uses high-grade iron concentrate from Benxi, Brazil, and Australia as primary raw materials, employing ultra-low temperature smelting to ensure titanium content < 0.030 , phosphorus effectively controlled within 0.035, and vanadium within 0.015.

In our ductile iron production, we strictly enforce precise raw material ratios, meticulous processes and accurate operations. Products meet standards of constant silicon, low phosphorus, titanium, vanadium and sulfur. Our foundry pig iron, characterized by stable low phosphorus, chromium and sulfur, is highly recognized by authorities and widely praised by industry users.



High-standard GB cast iron

Domestic foundry pig iron now has stricter requirements for Mn, Ti and Cr. With the aim of reducing costs for customers and improving casting quality, the company controls S within 0.030 through scientific formulas in smelting, refines Mn content (0.20~0.70) into three internal control groups, and keeps Cr within 0.020.

Display Of Pig Iron Products

Make casting easier III



Ferromanganes

Make casting easier III



- Product Overview:
Ferromanganese is an iron alloy primarily composed of iron and manganese. It is primarily used as a deoxidizer, desulfurizer, and alloy additive in steelmaking.
- Product granularity and packaging:
 - Particle size: 0-1mm, 3-10mm, 10-70mm, natural lump or customized according to customer requirements.
 - Packaging: Packed in ton bags (1002.5kg/bag) or customized according to customer requirements.

Ferromanganese Parameter Table								
category	grade	chemical composition (%)						
		Mn	C	Si		P		S
				I	II	I	II	
		scope	≤					
Low-carbon ferroman-ganese	FeMn88C0.2	85.0-92.0	0.20	1.0	2.0	0.10	0.30	0.02
	FeMn84C0.4	80.0-87.0	0.40	1.0	2.0	0.15	0.30	0.02
	FeMn84C0.7	80.0-87.0	0.70	1.0	2.0	0.20	0.30	0.02
Medium carbon ferroman-ganese	FeMn82C1.0	78.0-85.0	1.00	1.5	2.5	0.20	0.35	0.03
	FeMn82C1.5	78.0-85.0	1.50	1.5	2.5	0.20	0.35	0.03
	FeMn78C2.0	75.0-82.0	2.00	1.5	2.5	0.20	0.40	0.03
High carbon ferroman-ganese	FeMn78C8.0	70.0-82.0	8.00	1.5	2.5	0.20	0.33	0.03
	FeMn74C7.5	70.0-77.0	7.50	2.0	3.0	0.25	0.38	0.03
	FeMn68C7.0	65.0-72.0	7.00	2.5	4.5	0.25	0.40	0.03
Note: Other chemical elements and their contents can be customized according to customer requirements								

Ferrosilicon

Make casting easier III

grade	chemical composition (%)							
	Si	Al	Ca	Mn	Cr	P	S	C
	scope	≤						
FeSi75A10.5-A	74.0-80.0	0.5	1.0	0.4	0.3	0.035	0.02	0.1
FeSi75A10.5-B	72.0-80.0	0.5	1.0	0.5	0.5	0.04	0.02	0.2
FeSi75A11.0-A	74.0-80.0	1.0	1.0	0.4	0.3	0.035	0.02	0.1
FeSi75A11.0-B	72.0-80.0	1.0	1.0	0.5	0.5	0.04	0.02	0.2
FeSi75A11.5-A	74.0-80.0	1.5	1.0	0.4	0.3	0.035	0.02	0.1
FeSi75A11.5-B	72.0-80.0	1.5	1.0	0.5	0.5	0.04	0.02	0.2
FeSi75A12.0-A	74.0-80.0	2.0	1.0	0.4	0.3	0.035	0.02	0.1
FeSi75A12.0-B	74.0-80.0	2.0	1.0	0.4	0.3	0.04	0.02	0.1
FeSi75A12.0-C	72.0-80.0	2.0		0.5	0.5	0.04	0.02	0.2
FeSi75-A	74.0-80.0			0.4	0.3	0.035	0.02	0.1
FeSi75-B	74.0-80.0			0.4	0.3	0.04	0.02	0.1
FeSi75-C	72.0-80.0			0.5	0.5	0.04	0.02	0.2
FeSi65	65.0-<72.0			0.6	0.5	0.04	0.02	
FeSi45	40.0-47.0			0.7	0.5	0.04	0.02	
Note: Other chemical elements and their contents can be customized according to customer requirements								



- Product Overview:
Ferrosilicon, used as a deoxidizer or an additive of alloy elements, is widely applied in steelmaking processes, casting processes, and other industries.
- Product granularity and packaging:
 1. Particle size: finer than 200 mesh, finer than 60 mesh, 0-1mm, 1-3mm, 3-8mm, 10-70mm, natural lump. The above are commonly used particle sizes, and custom processing can be provided according to customer needs.
 2. Packaging: Packed in ton bags (1002.5kg/bag) or customized according to customer requirements.



- **Product Overview:**
Ferrochromium is an iron alloy composed of chromium and iron, characterized by its corrosion resistance and wear resistance. It is an important alloy additive in steelmaking.
- **Product granularity and packaging:**
 - 1. Particle size: 10-60mm, 10-100mm, natural blocks, etc., or customized according to customer requirements.
 - 2. Packaging: Packed in ton bags (1002.5kg/bag) or customized according to customer requirements.

level	grade	Chemical composition (%)									
		Cr			C	Si		P		S	
		scope	I	II		I	II	I	II	I	II
			≥			≤					
Micro-carbon ferrochromium	FeCr65C0.03	60-70			0.03	1.0		0.03		0.025	
	FeCr55C0.1		60	52	0.10	1.5	2.0	0.04	0.06	0.03	
low carbon ferrochrome	FeCr65C0.25	60-70			0.25	1.5		0.03		0.025	
	FeCr55C0.5		60	52	0.50	2.0	3.0	0.04	0.06	0.03	0.05
medium carbon ferrochromium	FeCr65C1.0	60-70			1.00	1.5		0.03		0.025	
	FeCr55C4.0		60	52	4.00	2.5	3.0	0.04	0.06	0.03	0.05
high-carbon ferrochrome	FeCr67C6.0	60-72			6.00	3.0		0.03		0.04	0.06
	FeCr55C10.0		60	52	10.0	3.0	5.0	0.04	0.06	0.04	0.06

Note: Other chemical elements and their contents can be customized according to customer requirements.

Spheroidizing agent parameter table							
grade	chemical composition (%)						
	Mg	RE	Si	Ca	Ba	Al	Fe
	scope					≤	
FeSiMg5RE1	5.5-6.5	0.5-1.5	38-45	2.0-3.5	moderate amount	0.8	margin
FeSiMg5RE2	5.5-6.5	1.5-2.5	38-45	2.0-3.5	moderate amount	0.8	margin
FeSiMg6RE2	6.0-7.0	1.5-2.5	38-45	2.0-3.5	moderate amount	0.8	margin
FeSiMg7RE2	6.5-7.5	1.5-2.5	38-45	2.0-3.5	moderate amount	0.8	margin
FeSiMg7RE3	6.5-7.5	2.5-3.5	38-45	2.0-3.5	moderate amount	0.8	margin
FeSiMg8RE3	7.5-9.0	2.5-3.5	38-45	2.0-3.5	moderate amount	0.8	margin
FeSiMg8RE5	7.5-8.5	4.5-5.5	38-45	2.0-3.5	moderate amount	0.8	margin
FeSiMg8RE7	7.0-9.0	6.5-7.5	38-45	2.0-4.0	moderate amount	0.8	margin
Note: Other chemical elements and their contents can be customized according to customer requirements.							



- Product Overview:
Spheroidizing agent, also known as rare earth magnesium-silicon-iron alloy, is an additive that promotes the graphite crystallization into spherical shapes in ductile iron. It is generally used in the field of cast iron casting. During the casting process, it is added to the molten iron to cause graphite to precipitate in spherical shapes.
- Product granularity and packaging:
 1. Particle size: 5-25mm, 5-30mm, or customized according to customer requirements.
 2. Packaging: Packed in 25kg small bags (1002.5kg/bag), or customized according to customer requirements.

Inoculant

Make casting easier III

Silicon-Barium Inoculant Parameter Table

chemical composition (%)							
Si	Ba	Ca	Al	P	S	C	Fe
scope			≤				
70.0-72.0	4.0-6.0	0.5-1.3	1.5	0.04	0.02	0.2	margin
70.0-72.0	3.0-5.0	0.5-1.3	1.5	0.04	0.02	0.2	margin
70.0-72.0	2.0-4.0	0.5-1.5	1.3	0.04	0.02	0.2	margin
69.0-70.0	5.0-7.0	0.5-1.5	1.5	0.04	0.02	0.2	margin
68.0-70.0	4.0-6.0	0.5-1.5	1.5	0.04	0.02	0.2	margin
65.0-70.0	3.0-5.0	0.5-2.0	1.5	0.08	0.05	0.3	margin
60.0-65.0	2.0-5.0	0.5-2.0	1.5	0.08	0.05	0.3	margin

Note: Other chemical elements and their contents can be customized according to customer requirements.。



- Product Overview:
The casting materials studied for ductile iron and gray iron castings promote graphitization, refine the body structure, significantly reduce the tendency towards chilling, and enhance the machinability of the castings. They are widely used in foundries for the production of ductile iron and gray iron castings.
- Product granularity and packaging:
 1. Particle size: 0-0.25mm, 0.2-0.8mm, 1-3mm, 3-5mm, 3-8mm, 5-10mm, 8-15mm, 10-20mm, and can also be customized according to customer requirements.
 2. Packaging: 25kg jumbo bag with inner and outer bags (1002.5kg/bag), or customized according to customer requirements.



carbon additive

- **Cylindrical graphitized carburizer**
Content: C: 91%-95%, S: 0.08-0.05%; absorption rate is around 90%
Particle size: 1-5mm.



carbon additive

- **Graphitized petroleum coke carburizer**
Particle size: 0-2mm, 1-5mm, or customized according to customer requirements.



carbon additive

- **Carbonized agent of forged petroleum coke**
Content: C: $\geq 98\%$, S: $\leq 0.5\%$, absorption rate generally ranges from 80% to 90%



carbon additive

- **Coal-based carburizer**
Content: C: 90%-93%, S: 0.3%-0.5%.

Silicon manganese alloy

Make casting easier 



- Product Overview:
Silicon-manganese alloy is an alloy composed of manganese, silicon, iron, a small amount of carbon, and other elements. It is primarily used as a compound deoxidizer and alloy additive in steel production.

Silicon-manganese alloy parameter table

grade	chemical composition (%)				
	Si	Mn	P	S	C
	≥		≤		
Si17Mn65	17.0	65.0	0.25	0.04	2.5
Si14Mn60	14.0	60.0	0.3	0.05	2.5

Note: Other chemical elements and their contents can be customized according to customer requirements.



Due to limited brochure space, not all products are shown. If you can't find the needed casting materials, please contact us anytime! Iron Valley offers one-stop quotation and procurement services.

We leverage China's strong alloy auxiliary supply network to provide diverse casting material options.

Casting materials: gray iron castings, ductile iron castings, malleable iron castings, steel castings, non-ferrous metals and alloys.



Automobile parts



Automobile parts



Automobile parts



Automobile parts



Automobile parts



Automobile parts



Automobile parts



Automobile parts

Product Display

Make casting easier III



Cast iron pipe



Cast iron pipe



Cast iron pipe



Cast iron pipe



Valve



Valve



Pump



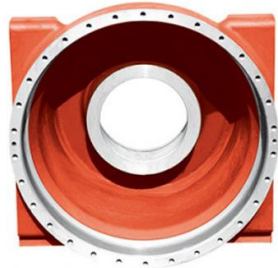
Pump

Product Display

Make casting easier III



construction machinery



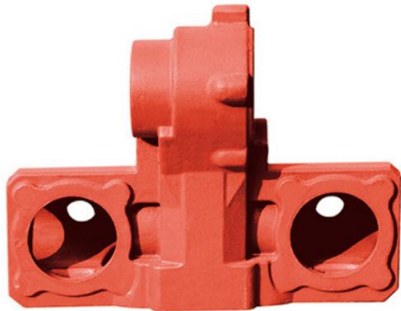
construction machinery



construction machinery



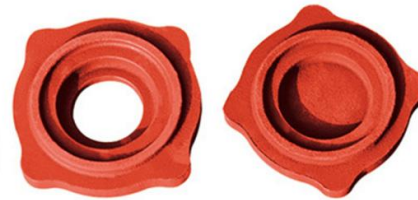
construction machinery



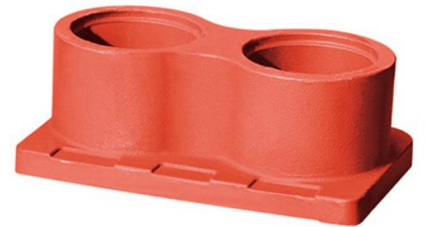
Agricultural castings



Agricultural castings



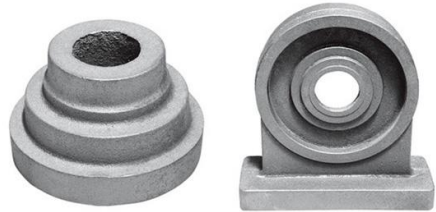
Agricultural castings



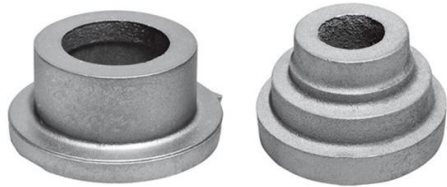
Agricultural castings

Product Display

Make casting easier III



Machine tool parts



Machine tool parts



Machine tool parts



Machine tool parts



Shipbuilding



Shipbuilding



Shipbuilding



Shipbuilding

Product Display

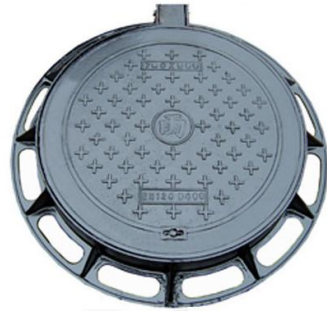
Make casting easier III



Wind power equipment



Wind power equipment



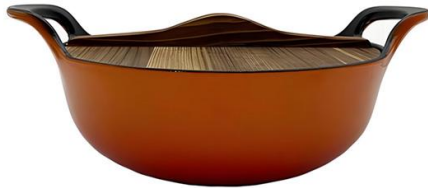
Municipal administration



Municipal administration



Enameled Cast Iron Soup Pot



Enameled Cast Iron Hot Pot



Enameled Cast Iron Hot Pot



Enameled Cast Iron Hot Pot

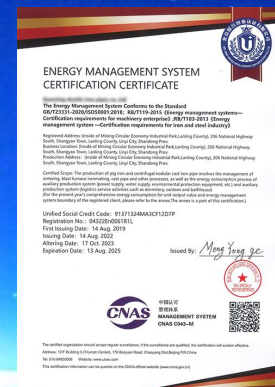
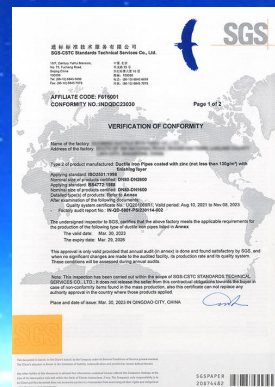
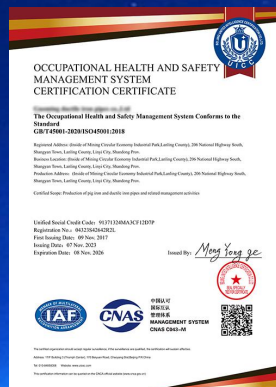
Certification

Make casting easier III

Tiegu has won honors such as "Local Outstanding Private Enterprise" and "Excellent Strategic Partner" for its outstanding market performance and industry contributions, gaining high recognition from the government and partners.

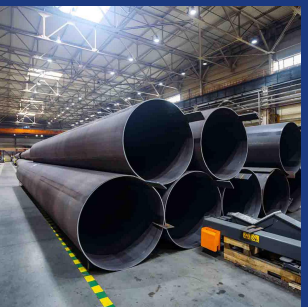
In terms of quality control, we strictly adhere to the ISO9001 quality management system, ISO14001 environmental management system, and ISO45001 occupational health and safety management system, exercising meticulous control over the entire product process from raw material procurement to delivery. Our supplied products not only meet stringent JIS standards but also have passed certifications in target countries and regions, and been tested and verified by international authoritative institutions, ensuring superior quality and stable performance.

高标准国际铸造生铁



Workshop, Products, Case Presentation

Make casting easier III



Cooperative Partner

Make casting easier III

As a smart service provider covering the entire industrial chain of the foundry sector, Tiegou leverages its professional resource integration capabilities and innovative development concepts to forge in-depth strategic partnerships with multiple high-quality upstream pig iron suppliers and casting manufacturers. Through a long-term and stable win-win cooperation mechanism, it has achieved efficient collaboration and deep synergy, jointly propelling China's high-quality casting products to set sail and reach overseas markets.



Tiegu from Anhui, Tiegu for the World

In the future, Tiegu plans to establish overseas branches and forward warehouses in key resource countries and trade hubs, facilitating localized warehousing, logistics, and distribution services. This strategic move will shorten the supply chain radius, reduce customers' procurement costs, and create a one-stop supply chain platform encompassing procurement, transportation, and warehousing.

60⁺ individual

Country and
region

Million tons

Experience in the
production and
sales of pig iron and
castings

One-Stop

A globally influential
one-stop product
service provider for the
foundry industry

Contact Information

Make casting easier III

📍 Headquarters: Anhui Tiegu Information Technology Co., Ltd
Address: 19th Floor, Building 1, Jinnuode, No. 1686 Xiyou Road,
Xingyuan Community Service Center, High-tech Zone, Hefei
City, Anhui Province

📍 International trade company: Tiegu (Hainan) International
Trade Co., Ltd
Address: Room 1906, R&F Center, No. 21 Guoxing Avenue,
Meilan District, Haikou City, Hainan Province

☎ Wechat&WhatsApp: +86-15256135588

✉ E-mail: zbw@tiegu.net

🌐 网址: www.tieguexport.com

If you have inquiries about pig iron or castings, you can also forward them to Tiegu Company via the hyperlink provided below.

[Go to the inquiry form](#)

*The above hyperlink will take you to Tiegu's official website.