



Parsaava

ferro Alloys Manufacturer



Parsaava.com
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About the company

with the goal of producing and P.U Parsaava was established in supplying high-quality ferroalloys in Iran. Since then, we have become one of the leading pioneers in the ferroalloy industry, focusing on product quality and customer satisfaction. Our products include a variety of ferrosilicon, ferromanganese, and other specialized ferroalloys used in the steel, foundry, and metallurgical industries.

At Parsaava, all of our production processes comply with international standards, and we are proud to export our products to European countries. These achievements are the result of our relentless efforts and the use of advanced technologies in manufacturing, making Parsaava a trusted supplier on the global stage.

We believe in fostering long-term partnerships with our clients and partners, constantly seeking innovative solutions to deliver high-quality products and excellent services to the global market.

Ferro alloys

Ferrosilicon Magnesium



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Technical Data Sheet



ferrosilicon magnesium alloy which is used in the production of ductile iron, cast iron with compressed graphite and steel cleaning. It is produced in this company by careful control of chemical composition and melting quality operation.

Applications:

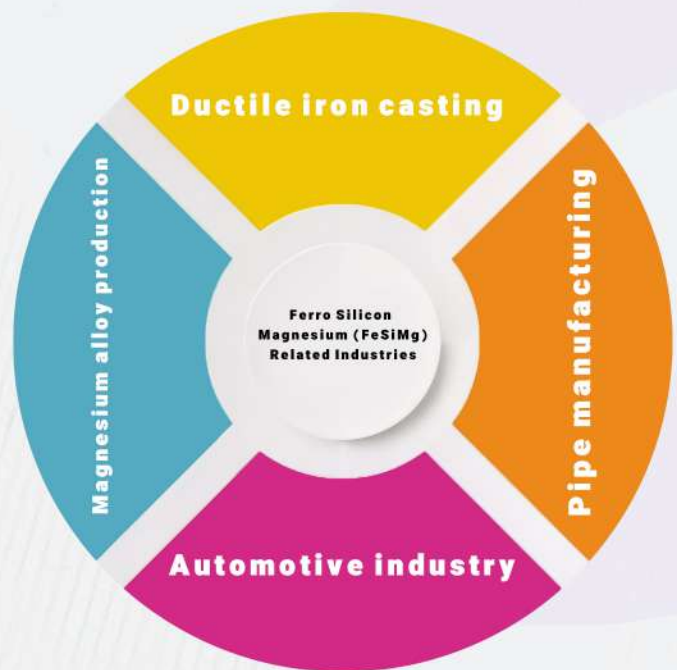
Ductile element in producing ductile iron and cast iron with compressed graphite
Oxygen depletion and sulphur depletion

sizing:

2-5 / 5-15 / 5-30 mm

Packing :

Small sizes in 25 kg bags
Large sizes in one-ton jumbo bags



Chemical compounds

items	%
Si	43-48
Mg	6-7
Ca	0.8-1.2
MiM(Ce & La)	0.8-1.2
Al	max 1.2
Fe	remaining

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inoculants

— Zirsinoc

— Inolate 190

Technical Data Sheet



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Zirconium inoculant is widely used in castings as a ladle additive or during flow, and causes uniform solidification and morphology improvement.

Zirsinoc is a silicon-based ferroalloy, which contains precise and controlled amounts of active elements of zirconium, calcium, and manganese aluminum.

Applications:

More potent than conventional ferrosilicon-based inoculants

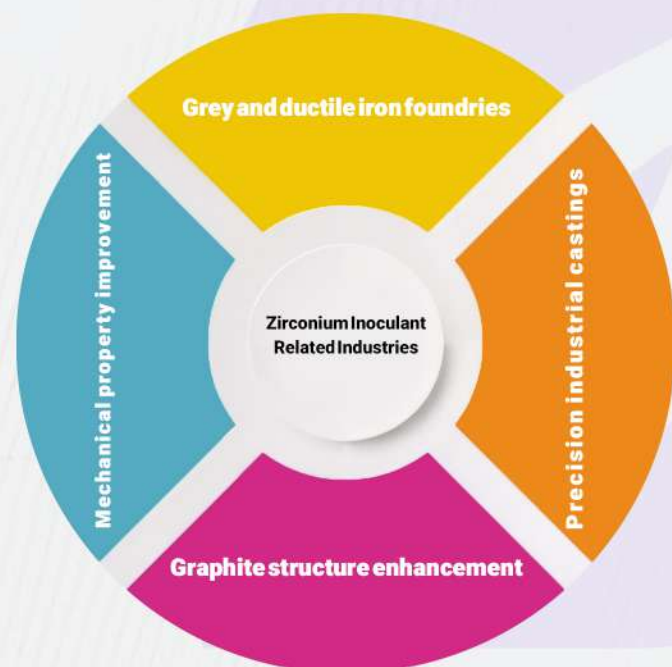
Gives high nodule count and powerful chill reduction

Provides good nodule structure in heavy section ferritic ductile iron

Packing :

25kg bag in 1mt super sack /Pallet

Sizes: 0.2-0.7mm / 2-6 mm



Chemical composition (% weight)		
Items	Inolate 190	Zirsinoc
Si	62-69	73-78
Zr	3-5	1.3-1.8
Ca	0.6-1.9	2-2.5
Mn	2.8-4.5	-
Ba	<0.6	-
Al	max 1.3	max 1.5
Fe	balance	balance

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inoculants

Inopipe

Technical Data Sheet



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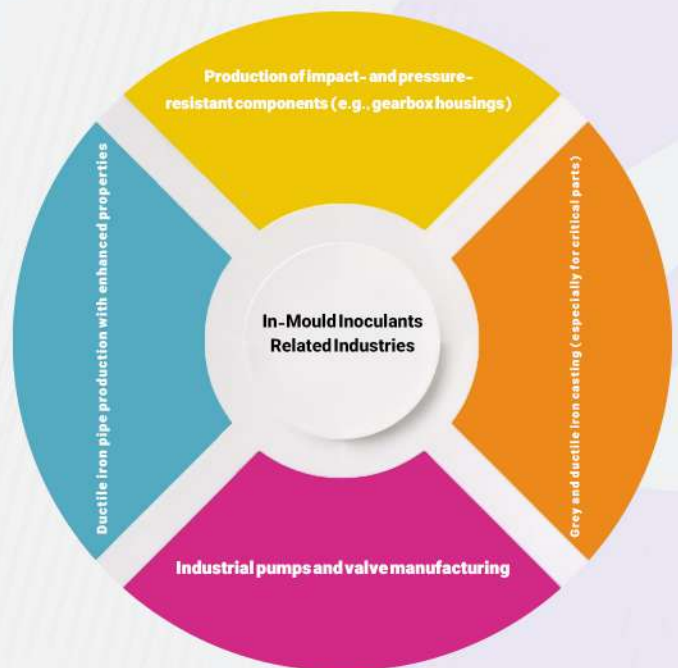
Inopipe is a family of specially designed powders for centrifugal casting of ductile and grey iron pipes. Inopipe mold powders are a family of specialty powders that are designed to reduce surface defects, facilitate pipe extraction and extend mold life, thus improving overall casting productivity and costs.

Applications:

Protection of the steel mould against thermal shock (increased mould-life) , Improved pipe stripping , Reduction of surface defects , Reduction of carbides , Optimization of the thermal treatment

Packing :

25 kg buckets on a 1 ton pallet
Sizes: 0.1-0.4mm



Chemical composition (% weight)

Items	%
Si	57-63
Ca	15-19
Ba	3-4.5
Al	0.8-1.5
Fe	balance

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Special metals

Magnesium ingot

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Magnesium ingot is a metallic material that is made from magnesium with a purity of 99.9% or more. Magnesium is a lightweight, soft metal with good electrical and thermal conductivity, and has a wide range of applications in aerospace, automotive, electronics, and optics.

Applications:

- Use in aluminum alloys
- Graphite morphology control in cast iron
- The use of magnesium granules in desulfurization of steel
- Using magnesium parts as sacrificial anode in cathodic protection

Packing :

8(\pm 0.3) kg ingots on one-ton pallets
other packages can be provided at the customer's request.



Chemical compounds (Mg : 99.98 min)

item	% (max)	item	% (max)
Cu	0.0006	Pb	0.001
Fe	0.003	Mn	0.002
Si	0.003	Al	0.004
Ni	0.003	Zn	0.003

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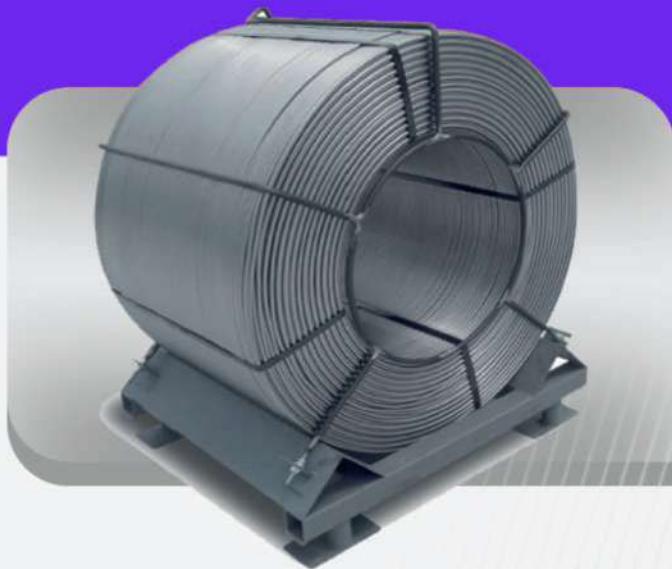
Ferro alloys

Cored Wires

Technical Data Sheet



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Cord Wire is a method in which a granule powder of different Elements is filled inside a mantle of stainless steel. The use of this coating allows the transfer of granule to the maximum possible depth in the melt bath. In summary, Cord Wire ability in the melt refining, increasing efficiency, reducing the time and costs of melting, and improve foundry capability are the most important benefits of using this product.

Applications:

FeSiMg Cored Wire:

Ductile element in producing ductile iron

CaSi Cored Wire:

Oxygen depletion and sulphur depletion

CPC Cored Wire:

Carbon Cored wire is used as a modifying additive to regulate carbon in molten steel.

Packing :

Vertically or horizontally on metal pallets



Dimension Specification	
Wire Diameter	13±0.2 mm
Strip Steel Thicknesses	0.5 / 0.4 ±0.03
Type Of Axis	Horizontal or Vertical
Packing	inner dia(600mm)-Outer dia(1200mm)-Height (1000mm)
Wire Length	4200±100 m

Casi Wire	
items	quantity
Si	58-62
Ca	28-30
C	max 1
S	max 0.05
Al	max 1
Fe	remaining
Powder Size	0-2 mm
Average of Powder Density	220±10 (gr/m)
Shape	Round

CPC Wire	
items	quantity
C	min 97
sulfur	max 0.5
ash	max 0.5
valatile matter	max 0.7
moisture	max 0.5
Powder Size	0-2 mm
Average of Powder Density	140±10 (gr/m)
Shape	Round

FeSiMg Wire	
items	quantity
Si	43-48
Mg	25-28
Ca	2-3
MiM(Ce & La)	2-3
Al	max 1
Fe	remaining
Powder Size	0-2 mm
Average of Powder Density	250±10 (gr/m)
Shape	Round

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Master alloys

Nickel Magnesium



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NiMg is used as modifiers in the casting of cast iron of various grades. NiMg added into the base metal during its melting.

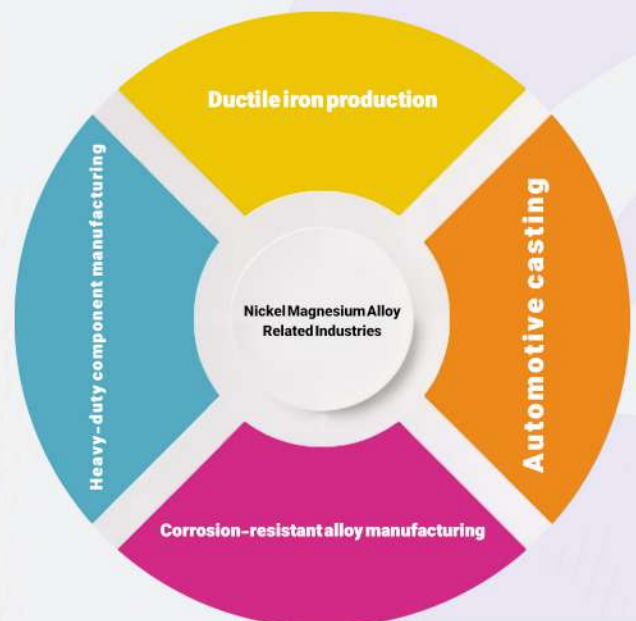
As a result, the efficiency of Mg uptake in liquid iron is significantly improved. The high density of the NiMg makes it possible to add it to the melt in the simplest way, providing a stable and reliable modification result. In this case, the evaporation of MgO and the pyroelectric effect are minimized.

Applications:

NiMg alloys are primarily used in steelmaking for desulfurization and in foundries for producing nodular iron, which enhances strength and ductility. They are also utilized in the production of certain rechargeable batteries and as catalysts in chemical reactions. Additionally, NiMg can be used in superalloys for high-temperature applications in aerospace and power generation.

Packing :

Size and type of packaging according to customer request



Chemical composition	
Items	%
Ni	78-82
Mg	17-20
MiM	1.5-2
Ca	max 0.5