

ZOB *kala*

شركة ذوب كالا شميه

FERRO ALLOYS

METALS

ALUMINIUM ADDITIVES

GRAPHITES



# OUR PRODUCTS

## Ferro Vanadium

V	78-82	%
Al	0.5 or 1.5	% max
Si	1.5	% max
C	0.1 or 0.25	% max
Fe	Balance	
Size	10-50 mm	



## Ferro Niobium

Nb	65-70	%
Al	0.8	% max
Si	0.8	% max
C	0.05	% max
Fe	Balance	
Size	10 - 50 mm.	



Ti	70	% min
Al	0.5 or 4.5	% max
C	0.04	% max
S	0.03	% max
Fe	Balance	
Size	10 - 50 mm	



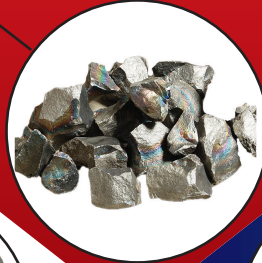
## Ferro Titanium



## Ferro Manganese



	FeMn LC	FeMn MC	FeMn HC	%
mn	80 - 83	79 - 80	75	% max.
C	0.5	1.5	6 - 8	% max.
Si	0.7	1	1.5	% max.
P	0.02	0.03	0.03	% max.
Fe	Balance	Balance	Balance	
Size	10 - 80 mm.	10 - 80 mm.	10 - 80 mm.	



## Ferro Chromium

	FeCr LC	FeCr HC	%
Cr	65 - 72	60 - 65 or 65 - 70	% max.
C	0.1	6 - 8	% max.
Si	1.5	1 or 3	% max.
S	0.04	0.05	% max.
Fe	Balance	Balance	% max.
Size	10 - 80 mm.	10 - 100 mm.	



## Ferro Silicon Zirconium

Si	50-55	%
Zr	35	% min.
C	0.5	% max.
Al	2	% max.
Fe	Balance	
Size	10 - 50 mm	



Ferro Silicon  
Ferro Silicon Calcium  
Ferro Silicon Magnesium  
Ferro Silicon Manganese  
Nickel Magnesium



Ferro Boron  
Ferro Tungsten  
Ferro Molybdenum  
Ferro Phosphorus

## Manganese Metal



Mn	99.85	% min.
C	0.021	% max.
S	0.011	% max.
P	0.0005	% max.
Fe + Se + Si	0.11	% max.
Size	In Flakes	



## Silicon Metal

Si	99	% min.
Fe	0.4	% max.
Al	0.4	% max.
Ca	0.1	% max.
Size	10 - 100 mm.	

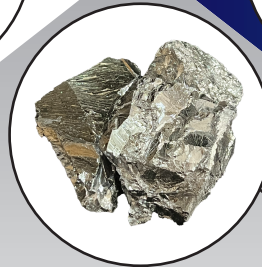


## Magnesium Ingot

Mg	99.90	% min.
Fe	0.004	% max.
Si	0.005	% max.
Al	0.006	% max.
Mn	0.01	% max.
Size	Ingot 7.5 + 0.5 Kgs Or Ingot 300 + 10% grs	



Cr	99.23	%
Al	0.05	%
Si	0.14	%
Fe	0.28	%
P	0.005	% Max.
Size	10 - 50 mm.	



## Chrome Metal





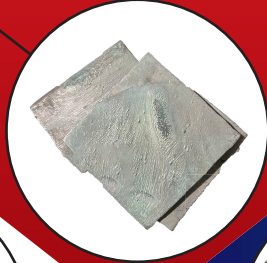
## Nickel



Ni	99.98	% min
Co	0.001	% max
Fe	0.0001	% max
Cu	0.0005	% max
C	0.001	% max
Shape	Plate OR Balls	

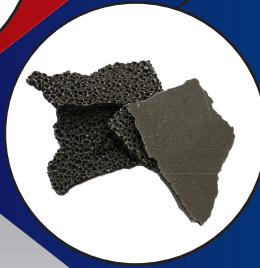
## Bismuth Ingot

Bi	99.99	% min
----	-------	-------



## Cobalt

Co	99.94	%min
Ni	122	ppm
Fe	9	ppm
C	110	ppm
Zn	24	ppm
Shape	Flakes	



Indium  
Tin  
Zinc  
Lead

Molybdenum  
Zirconium  
Titanium

# ALUMINIUM ADDITIVES

## Aluminium Strontium

Sr	9-11	%
Fe	0.3	% max
Al	Balance	



## Aluminium Boron

B	8	%
Al	Balance	



## Aluminium Copper

Cu	50	%
Al	Balance	



Element (%) Al or Flux

Ti Tab	(Ti) 75	Balance
Cr Tab	(Cr) 75	Balance
Mn Tab	(Mn) 75	Balance
Fe Tab	(Fe) 75	Balance



## Additive Tabs



## Aluminium Vanadium

V	10	% min
Al	Balance	



## Metallurgical Coke

C	78-80	% min.
S	1/2-1/4	% max.
V.m	1-2	% max.
Ash	17-19	% max.
Moisture	2-4	% max.
Size	5-15	mm



## Graphite

	CPC	GPC	
C	98.5	99	% min
S	0.5	0.04	% min
Ash & Vm & Moisture	0.5	0.5	% max
Size	1-5 mm	1-5 mm	% max



Aluminium Silicon  
 Aluminium Titanium Boron  
 Aluminium Nickel  
 Aluminium Magnesium

Aluminium Beryllium  
 Aluminium Zirconium  
 Aluminium Titanium

## About Zobkala shamim Iranian company

This company has nearly 30 years of experience in the supply of cast iron, steel and aluminum raw materials. Our values are customer orientation, quality products, consulting and quality assurance.



NO. 1302, 13TH NORTH FL., NEGIN  
REZA TOWER , CORNER OF 14 GOLESTAN , ASHRAFI  
ESFAHANI BLVD.TEHRAN , IRAN



+9821 44030420



+9821 44055294



info@zobkala.com



www.zobkala.com



@ZOBKALA\_SHAMIM