

**BOF Meltshop Ferroalloys  
available for sale at CAP-Huachipato, Chile**

**1. Aluminum wire rod (10000065)**



Diameter: 12mm nominal.

Tensile strength: 124 - 152 MPa. Coil weight: 1,800 - 2,000 Kg.

Chemical analysis:

Al: 99% Min.

Fe: 0.045 - 0.55%

Si: 0.12% Max.

Without lubricant.

Available Stock : 6.5 t.

## 2. Micropulverized lime

(10000070)



Chemical characteristics:

CaO: 90 % Min.

MgO: 1.0 % Max.

Silica and insolubles: 0.5 % Max.

Ferric Oxide: 0.15 % Max.

Alumina: 0.15 % Max.

Total Sulfide: 0.025 % Max.

Ignition Loss: 1.0 - 2.0 %.

Carbon Dioxide: 0.5 % Max

Available Stock : 32.5 t.

### 3. Calcium Carbide (10000084)



Chemical characteristics:

CaC<sub>2</sub>: 70.0% Min.

SiO<sub>2</sub>: 5.0% Max.

Free C: 4% Max.

Granulometry: 4 - 15 mm, 80% minimum.

Packaging: 5 kg polyethylene bags, in 230 kg weather-resistant drums to prevent contact of the material with water.

Observations: Class 4.3 Hazardous Substance. Hazardous Solid in contact with Water. Reacts forming hydrogen (flammable)

Available Stock : 1.25 t.

#### 4. Medium Carbon Ferromanganese (10000096)



Chemical characteristics: Mn: 80 - 85%.

C: 1.5% Max. Si: 1.5% Max. P: 0.3% Max.

S: 0.02% Max.

Granulometry:

< 3/8": 5% Max.

3/8" to 2 1/2": 90% Min.

> 2 1/2": 5% Max.

Packaging: In 1,500 Kg Big Bag

Available Stock : 127.29 t.

## 5. High Carbon Low Phosphorus Ferromanganese (10000098)



Chemical characteristics:

Mn: 74% Min / 78% Max.

C: 7.5% Max.

Si: 1.2% Max.

P: 0.1% Max.

S: 0.05% Max.

Granulometry:

< 3/8": 5 % Max.

3/8" to 2 1/2": 90% Min.

> 2 1/2": 5% Max.

Packaging: In 1,000 Kg Big Bag.

Available Stock : 33.1 t.

## 6. Nitrided Ferromanganese (10000099)



Chemical characteristics: Mn: 85% Min / 95% Max.

C: 0.05% Max.

Si: 1% Max.

P: 0.03% Max.

S: 0.025% Max.

N: 7% Min/10% Max.

Packaging: 2,000 Kg wire coil.

Available Stock : 3.9 t.



## 7. Ferroniobium (10000100)



Chemical characteristics:

Nb: 63.00% Min.

Ta: 0.20% Max.

C: 0.20% Max.

Si: 3.0% Max.

Al: 2.0% Max.

Sn: 0.15% Max.

P: 0.20% Max.

S: 0.10% Max.

Pb: 0.12% Max.

Granulometry:

<2": 5% Max

2" – 8": 90% Min

>8": 5% Max

Packaging: Big bags of 1,000 Kg

Available Stock : 9.54 t.

## 8. Ferrosilicon 75% Bulk (10000101)



### Chemical characteristics:

Si: 74 - 79%.

C: 0.10% Max.

Mn: 0.4% Max.

S: 0.025% Max.

P: 0.03% Max.

Al: 1.5% Max.

### Granulometry:

<10 mm: 5% Max

10 - 50 mm: 90%

> 50mm: 5% Max

Packaging: 1000 Kg Big Bag.

**Available Stock : 69.5 t.**



## 9. Fine Ferrosilicon (10000103)



Chemical characteristics:

Si: 68.00% Min.

C: 0.15% Max.

S: 0.025% Max.

P: 0.04% Max.

Al: 1.50% Max.

Size: 0 - 3 mm (90% min)

Packaging: 5 Kg bags in 1000 Kg Big Bags

Available Stock 1.93 t.

## 10. Ferrovandium (10000105)



Granulometry: 10 to 50 mm: 95% Min.

Chemical characteristics:

V: 75% - 85%

C: 0.75% Max.

Cu: 0.15% Max.

Yes: 1.50% Max.

Sn: 0.02% Max.

P: 0.08% Max.

S: 0.08% Max.

Al: 2.00% Max.

Cr: 0.30% Max.

**Available Stock : 2.37 t.**

## 11. Glutin (10000108)



Thermal insulating powder for continuous casting tundish (GRP Glutin).

Packaging: 60 x 37 cm polypropylene bags containing 8 kg of product in 320 kg maxi bags, on pallets

Available Stock : 67.65 t.

## 12. Low Nitrogen Recarburizer, coarse granulometry (10000116)



### Chemical characteristics:

Fixed carbon: 92.5% Min.

Sulfur: 0.7% Max.

Nitrogen: 0.3% Max.

Phosphorus: 0.6% Max.

Volatile matter: 1% Max.

Ash: 1.5% Max.

### Granulometry:

< 3 mm: 5% Max.

3 - 10 mm: 90% Min.

>10 mm: 5% Max.

Humidity: < 0.3%.

Packaging: Big Bags of 1,000 Kg.

Available Stock : 111.91 t.

### 13. Bulk Silica Sand (10000280)



Chemical characteristics:

SiO<sub>2</sub>: 95% Min.

Fe<sub>2</sub>O<sub>3</sub>: 1.5% Max.

Granulometry:

+0.5 to 3 mm 80%,  
tolerance +/- 0.2mm.

Humidity: Washed and dried sand.

Packaging: In Big Bag

.

Available Stock : 33.7 t.



#### 14. Alambre HiCal (10000340)



Wire diameter: 10 mm.

Powder weight: 69 gr/m.

Net powder weight: 400 Kg.

Gross wire weight: 1,670 Kg.

Chemical characteristics :

C: 0,13%.

S: 0,007%.

Al: 0,45%.

Co: <0,001%.

Cu: 0,06%.

Cr: 0,0029%.

Fe: 0,48%.

Mg: 0,31%.

Mo: <0,001%.

Ni: 0,15%.

Si: <0,001%.

Ti: <0,001%.

V: <0,001%.

Zn: 0,006%.

Zr: <0,001%.

Mn: 0,053%.

Ca: 98,3%.

Available Stock : 70.12 t.

## 15. Magnesium (10000351)



Application: Desulfurization of pig iron for mono-injection and preparation with calcium carbide or lime

### Composition:

85% Magnesium granules.

15% Fluxes, coatings, metallurgical active components.

### Granulometry:

> 1.0 mm: 0 %.

> 0.8 mm: 5% Max.

0.5 - 0.8 mm: 35 - 60 %.

0.2 - 0.5 mm: 35 - 60 %.

< 0.2 mm: traces.

Apparent density: 850 kg/m<sup>3</sup> appx.

Special Properties: Very good fluidity, which allows an exact dosage in the pig iron ladle.

Special coating that prevents oxidation, reduces the risk of dust explosions and increases its useful life.

Packaging: In Big-Bags of 1,100 Kg in accordance with IMO Code 4.3.

Available Stock 25.3 t.

## 16. FerroMolybdenum (10000500)



Chemical characteristics:

Mo: 55% Min.  
C: 0.02% Max.  
S: 0.10% Max.  
P: 0.05% Max.  
Cu: 0.5% Max.

Packaging: Big Bags of 1,000 Kg.

Available Stock : 1.53 t.

### 17. Encapsulated FeTi wire (100005G0)



Hi-FeTi: Wire diameter: 13 mm.

Coil weight: 2,300 Kg

Powder content weight: 1,260 Kg (approximately).

Chemical characteristics:

Ti : 70% Min.

S : 0,05% Max.

Al: 4,5% Max.

C: 0,2 % Max.

Si: 4 % Max.

Mn: 1 % Max.

Available Stock : 43.36 t.

#### 18. High Carbon Standard Ferromanganese (10000611)



Chemical characteristics:

Mn: 74% - 78%.

C: 7,5% Min.

Si: 1,2% Min.

P: 0,2% Max.

S: 0,05% Min.

Granulometry:

< 3/8": 5% Max.

3/8" a 2 1/2": 90% Min.

> 2 1/2": 5% Max.

Packaging: Big Bags of 1,000 Kg.

Available Stock : 137.8 t.



## 19. Recarburizer in 13 mm diameter wire (10000620)



### Typical chemical analysis:

C: 98% Min.

S: 1 % Max.

Volatile material: 0.5 % Max.

Ash: 0.5 % Max.

Diameter: 13 mm (nominal).

Density: 155 (gr/m) +/- 5%.

Length: 5,200 m (approximately).

Net content: 800 Kg (approximately).

Coil weight: 1,580 Kg.

Available Stock : 37,9 t.

## 20. High Purity Nickel (10000640)



Quality: 99.96% Ni Min.  
Size: 2" x 2"

Available Stock : 1,8 t.

## 21 Encapsulated Ferro Boron Wire (10000711)



### Typical chemical analysis:

Bo: 18-20 %.  
Si: 2% Max.  
Al: 0.5% Max.  
C: 0.6 % Max.  
P: 0.05 % Max.  
S: 0.05 % Max.

Diameter: 13 mm (nominal).  
Density: 510 (gr/m) +/- 5%.  
Length: 3,600 m (approximately).  
Net content: 1,840 Kg (approximately).  
Coil weight: 2,450 Kg.

Available Stock : 18,5 t.

## 22. Ferro Sulfur Wire (10000722)



Typical chemical analysis:

S: 99.5% Min.

Diameter: 13 mm (nominal).

Density: 195 (gr/m) (0.131 lb/ft)

Length: 5,000 m (approximately).

Net dust content: 970 Kg (approximately).

Coil weight: 1,800 Kg.

Available Stock : 5,7 t.

### 23. Ferrochrome 54% High Carbon (10000780)



#### Chemical characteristics:

Cr: 54,0% Min.

C: 6,0% - 9,0%.

Si: 4,5% Max.

P: 0,04% Max.

S: 0,05% Max.

#### Granulometry:

<10 mm: 5% Max.

10 a 60 mm: 90% Min.

>60 mm: 5% Max.

Packaging: Big Bags of 1000 Kg in bulk and packaging.

Available Stock : 1,564.3 t.



## 24. High carbon silicon (10000860)



### Chemical characteristics:

Si: 68,0% Min.

C: 18,0% Min.

S: 0,05% Max.

P: 0,05% Max.

Al: 3,0% Max.

### Granulometry

<10 mm: 5% Max.

10 a 50 mm: 90% Min.

>50 mm: 5% Max.

Packaging: Big Bags of 1,000 Kg in bulk and packaging.

Available Stock : 648.5 t.



## 25. Ferrochrome 52% High Carbon C, Charge Chrome (10000890)



### Chemical Characteristics :

Cr: 52,0% Min.

C: 8,0% Min.

Si: 5% Max.

P: 0,03% Max.

S: 0,05% Max.

### Granulometría

<10 mm: 5% Max.

10 a 80 mm: 90% Min.

>80 mm: 5% Max.

Packaging: Big Bags of 1000 Kg in bulk and packaging.

Available Stock : 349.4 t.

## 26. Calcium aluminate (10000981)



Chemical Characteristics :

Al<sub>2</sub>O<sub>3</sub>: 50,0% - 55,0%.

CaO: 33,0% - 35,0%.

SiO<sub>2</sub>: 6,0% Max.

TiO<sub>2</sub>: 2,5% Max.

MgO : 0,8 % Max.

Granulometry: 3-30 mm.

Packaging: Big bags of 1,250 Kg.

Available Stock : 573.7 t.

## 27. Low Nitrogen Recarburizer -Pet Coke - (10000984)



### Chemical Characteristics:

C: 98,5% Min.

S: 0,05% Max.

Humidity: 0.5% Max.

Volatiles: 0.5% Max.

Nitrogen: 1000 ppm Max.

Ash: 0.5% Max.

Available Stock : 65.9 t.

## 28. Silica Manganese 65% (10001021)



### Chemical characteristics:

Mn: 65% Min.

C: 2,5% Max.

Si: 15% Min.

P: 0,15% Max.

S: 0,03% Max.

### Granulometry:

<10 mm: 5% Max.

10 a 50 mm: 90% Min.

>50 mm: 5% Max.

Packing: Big Bags of 1,000 Kg in bulk and packaging.

Available Stock : 1,810.7 t.

## 29. Graphite Electrodes



Electrode, Electric Arc Melting Furnace.

Outer Diameter: 406 mm.

Length: 1,829 mm.

Grade: Super UHP (Premium), With Tapered Nipple 4TPI.

Physical Properties: Nipple Electrode

Bulk Density (g/cm<sup>3</sup>) 1.72 1.8

Electrical Resistance ( $\Omega$ m) 5.1 3.4

Flexural Strength (Mpa) 14 26

Modulus of Elasticity (Gpa) 11.5 18

Available Stock : 355.0 t.