





ABOUT US

RFA International is the exclusive distributor of the ChEMK Industrial Group, headquartered in Schaffhausen, Switzerland.

The 4 production units in Russia, along with various mines and ore deposits, establishes the ChEMK Industrial Group as one of the largest integrated producers of FerroAlloys worldwide.

With years of experience in the industry, RFA International is recognized as a global leader in the supply of FerroChrome, FerroSilicon and several other FerroAlloy products.

We take pride in the fact that leading Carbon, Stainless and Special Steel producers around the world rely on our ability to consistently deliver high quality products.

HISTORY

1929

The first Ferroalloy plant in the Soviet Union was built in Chelyabinsk

1992

JSC ChEMK is established

2002

Acquisition of Kuznetskie Ferrosplav (KF) plant

2006

Acquisition of Yurga plant

2015

Acquisition of Serov plant



PLANTS AND MINES



| Plant | Location | Production Capacity (kt) | Number of Employees | Production Units | Products |
|-----------------------------|--------------------------------|--------------------------|---------------------|------------------|-----------------------------------|
| ChEMK | Chelyabinsk – Ural Region | 750 | 10,000 | 50 | HC/MC/LC FeCr FeSi, FeMn, SiMn |
| Kuznetskie Ferrosplavy (KF) | Novokuznetsk – Kemerovo Region | 440 | 2,800 | 13 | FeSi, Microsilica |
| Yurga | Yurga – Kemerovo Region | 125 | 1,100 | 7 | FeSi, Microsilica |
| Serov | Serov – Sverdlovsk Region | 400 | 2,650 | 17 | HC/MC/LC FeCr FeSi |

OUR PRODUCTS

FerroSilicon (FeSi)

| | Si (%) | C (%) | P (%) | S (%) | Al (%) |
|---------|--------|--------|--------|--------|--------|
| FeSi 75 | 75 ↑ | 0.15 ↓ | 0.03 ↓ | 0.03 ↓ | 1.5 ↓ |
| FeSi 70 | 70 ↑ | 0.15 ↓ | 0.03 ↓ | 0.03 ↓ | 1.5 ↓ |
| FeSi 65 | 65 ↑ | 0.15 ↓ | 0.03 ↓ | 0.03 ↓ | 1.5 ↓ |
| FeSi 45 | 45 ↑ | 0.15 ↓ | 0.03 ↓ | 0.03 ↓ | 1.5 ↓ |

Refined FerroSilicon 70 (HG FeSi 70)

| | Si (%) | C (%) | P (%) | S (%) | Al (%) |
|------------|--------|--------|--------|--------|--------|
| HG FeSi 70 | 70 ↑ | 0.05 ↓ | 0.03 ↓ | 0.03 ↓ | 0.5 ↓ |

SilicoManganese (SiMn)

| | Mn (%) | Si (%) | C (%) | P (%) | S (%) |
|------|--------|---------|-------|--------|--------|
| SiMn | 65 ↑ | 15 - 18 | 2.5 ↓ | 0.15 ↓ | 0.03 ↓ |

Microsilica

| | SiO ₂ (%) | H ₂ O (%) | Activity Index | LOI (%) | Bulk Density (kg/m ³) |
|-------------|----------------------|----------------------|----------------|---------|-----------------------------------|
| Microsilica | 90 ↑ | 3 ↓ | 105 ↑ | 6 ↓ | 500 - 700 |
| Microsilica | 85 ↑ | 3 ↓ | 95 ↑ | 6 ↓ | 500 - 700 |



Low Carbon FerroChrome (LC FeCr)

| | Cr (%) | C (%) | Si (%) | P (%) | S (%) |
|---------|--------|--------------|--------|--------|--------|
| LC FeCr | 65 ↑ | 0.015 – 0.25 | 1 ↓ | 0.03 ↓ | 0.03 ↓ |

Medium Carbon FerroChrome (MC FeCr)

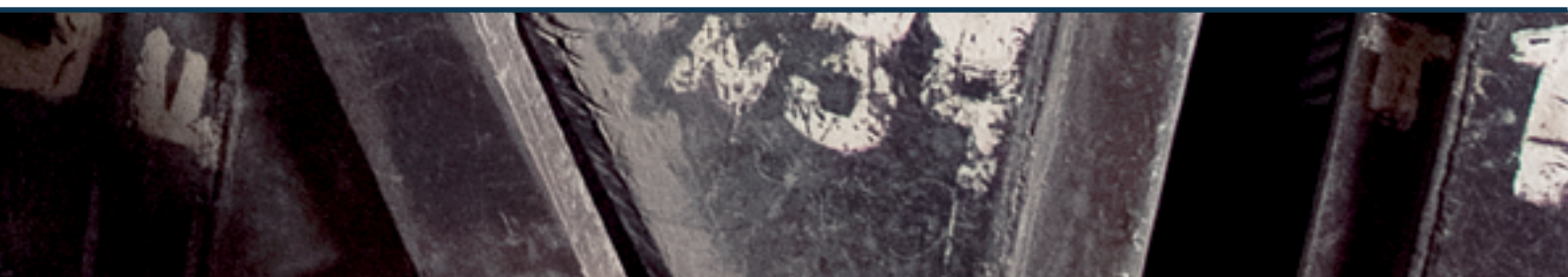
| | Cr (%) | C (%) | Si (%) | P (%) | S (%) |
|---------|--------|---------|--------|--------|--------|
| MC FeCr | 65 ↑ | 0.5 – 2 | 1.5 ↓ | 0.03 ↓ | 0.03 ↓ |

High Carbon FerroChrome (HC FeCr)

| | Cr (%) | C (%) | Si (%) | P (%) | S (%) |
|----------------|--------|-------|--------|--------|--------|
| HC FeCr | 60 ↑ | 8 – 9 | 1.5 ↓ | 0.03 ↓ | 0.03 ↓ |
| HC FeCr Si 1.0 | 60 ↑ | 8 – 9 | 1.0 ↓ | 0.03 ↓ | 0.03 ↓ |
| HC FeCr Si 0.5 | 60 ↑ | 8 – 9 | 0.5 ↓ | 0.03 ↓ | 0.03 ↓ |

High Carbon FerroChrome Low Titanium (HC FeCr LTi)

| | Cr (%) | C (%) | Si (%) | P (%) | S (%) | Ti (%) |
|-------------|--------|-------|--------|--------|--------|---------|
| HC FeCr LTi | 60 ↑ | 8 – 9 | 1.5 ↓ | 0.03 ↓ | 0.03 ↓ | 0.025 ↓ |





A GLOBAL NETWORK FOR A LOCAL PRESENCE

RFA International has several Sales and Representation Offices, and operates a wide network of warehouses globally.

Sales and Representation Offices:

- **Switzerland:** Schaffhausen (Main office)
- **Japan:** Tokyo
- **India:** New Delhi

Warehouses:

- **Europe:** Rotterdam, Vlissingen, Ravenna, Bilbao, Duisburg, Basel, Gavle, Scunthorpe
- **Far East:** Moji, Nagoya, Kawasaki, Himeji, Muroran, Busan, Kaohsiung
- **Turkey:** Gebze, Iskenderun
- **Middle East:** Sohar

This local presence allows us to provide efficient logistic services and just-in-time deliveries to our customers.





MANAGEMENT SYSTEM

QUALITY SYSTEM

The main priority of our company is to achieve customer satisfaction by consistently supplying high quality products.

This Quality System is based on a permanent control of all stages of the production process, and on strict testing in our modern accredited laboratories.

Our Quality Management System is certified in accordance with the ISO 9001 standard.



ENVIRONMENT

As part of a constant commitment to limit the environmental impact of our Operations, our Group has made significant investments in highly effective gas-cleaning equipment that have drastically reduced the level of greenhouse gas emissions over the last decade.

Another focus in our sustainable approach, is to recycle internally close to 95% of our production waste, and to use a closed cycle industrial water supply with multi-stage water treatment.

Our Environment Management System is certified in accordance with the ISO 14001 standard.



HEALTH AND SAFETY

At the ChEMK Industrial Group, our long-term success depends upon working to ensure the safety and well-being of our workers and contractors.

We believe that a safe and healthy workplace is a business imperative. Our health and safety policy requires that we minimize the risk of accidents, injuries and exposure to health hazards in our Operations.

Our Health and Safety Management System is certified in accordance with the ISO 18001 standard.





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