



Melting

Metal powders for melting applications

Höganäs is a global leader in the production of metallic and non-metallic powders for industrial applications, with a special focus on melting processes. The addition of metallic powders, such as iron powder, during metal melting allows for precise adjustments to the chemical composition of alloys and provides greater control over the final properties of the product.

Metal powders offering chemical precision in melting

Based on decades of experience supplying solutions to the metallurgical industry, Höganäs has developed a selection of metal powders with high purity, thermal stability, and oxidation resistance, that are ideal for iron, steel, and special alloy foundries.

During the melting process, precision in the chemical composition of the alloy is essential to ensure technical performance, batch-to-batch consistency, and cost reduction.

Metal powders for accurate alloy composition, such as:

- » **Sponge iron**, mineral origin with low binder content
- » **Low-phosphorus iron powder**
- » **Low-carbon iron powder**
- » **Solutions with optimized formats** (form factor), which facilitate handling, dosing, and melting, such as powder, tablets, flakes, lumps, among others.

Scan the QR code for more information about our metal powders and other Höganäs products.



Powder properties

Products	Apparent density (g/cm ³)	Fe (%)	C (%)	P (%)	S (%)	Product shape
	Sponge iron powders					
Melt Flakes	-	99	0.01	0.002	0.005	Flake
NC100.24	2.4	99	0.01	0.001	0.005	Powder
Ferroflake	-	98	0.21	0.002	0.005	Flake

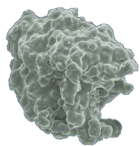
Atomised iron powders						
LP 800	-	Base	0.2	0.004	0.014	Powder
Ferro Lump	-	Base	0.003	0.01	0.01	Lump
Iron Briquettes	-	Base	0.006	0.012	0.011	Briquette
ABC100.30	3.02	99	0.002	0.004	0.004	Powder

Electrolytic iron powders						
A-101-A	-	99	0.005	0.002	0.005	Powder

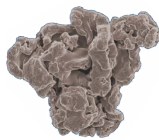
Non-metallic materials for alloy incorporation

In addition to metallic powders, Höganäs' portfolio includes advanced ceramic powders that can be incorporated into metallic alloys during melting, such as SiC (silicon carbide), TiC (titanium carbide), and Cr₃C₂ (chromium carbide). These materials offer specific benefits, such as increased wear resistance, improved thermal stability, structural reinforcement, and control of tribological properties.

They are especially useful in applications that require superior performance in aggressive environments or under high mechanical stress.



Atomised



Sponge



Flake

Precision in alloy composition and superior performance

During the melting process, the use of metallic and non-metallic powders allows for:

- Precise control of alloy composition.
- Batch-to-batch consistency.
- Waste reduction and resource optimisation.
- Improved wear and abrasion resistance with the incorporation of ceramic powders.

- Increased thermal stability in alloys subjected to high temperatures.
- Structural reinforcement and control of tribological properties in critical applications.
- Controlled particle size distribution for better dispersion and melting.
- Low fines content, preventing segregation and losses during the process.
- Sustainability benefits, with lower environmental impact and greater energy efficiency.

Höganäs also offers specialised technical support for powder selection according to ASTM and ISO standards.

Versatile portfolio and smart packaging

In addition to the technical quality of the materials, Höganäs offers further value through logistics solutions adapted to customer needs. This flexibility allows us to serve everyone from artisanal meltshops to large industrial plants, with practicality and cost-effectiveness.

Types of packages	Size (kg)
Flexbag	1.000/500/250
Bag	20/25
Plastic bottle	5
Metallic drum	227/100/75/50/25
Pail	25/50