



# Metallurgical Grade HK-1

**CAS 7439-89-6**

Carbonyl iron powder metallurgical grade HK-1 is produced in the form of gray powder with spheric shape particles.

## Physical and chemical properties

NAME content	NORM
1.CONTENT :	
Iron, Fe % w, balance	97
Carbon, C % w	0.6-1.2
Oxygen, O % w, not more	0.4
Nitrogen, N % w, not more	0.9
Sulphur, S ppm, not more	50
Silicium, Si ppm, not more	100
Nickel, Ni ppm, not more	100
Chromium, Cr ppm, not more	150
Molibdenium, Mo ppm, not more	100
2.Weight loss under heating in H <sub>2</sub> , % w, not more	3.0
3.Apparent density g/cm <sup>3</sup> , not less	2.0
4.True density g/cm <sup>3</sup> , not less	7.5
5.Particle size distribution (SYMPATEC) microns	
x10	<4.0
x50	<8.0
x90	12-25

### Application

Powder Metallurgy, Metal Injection Molding (MIM), Iron Powder Cores.

### Packing

Steel drums of 25, 50, 100 and 125 kgs capacity.

### Transportation

Transported by marine, railway and auto transport in accordance with "The rules of Transportation" for the corresponding kind of transport.