

CIPMS is an exceptionally fine and pure iron powder with unique morphological properties.

CIP is produced by thermal decomposition of iron pentacarbonyl ($\text{Fe}(\text{Co})_5$), which is previously distilled to high purity. In the course of the decomposition process, spherical iron layers form on a nucleus, thereby developing a shell structure. The decomposition conditions determine the main properties, including the particle size distribution of the intermediate products.

With its unique microstructure, CIP is a good absorber of microwave frequencies. It can easily be incorporated in plastic, elastomeric, or varnish matrices to provide efficient shielding of electronic equipment from electromagnetic interference and minimize reflection of objects exposed to radiation in the radar and microwave frequency bands.

Main features include:

FEATURES AND BENEFITS

- Excellent absorption of radar and microwaves
- High purity
- Outstanding quality and consistency
- Reliable delivery

Manufacturer: BASF

Availability: Limited

PHYSICAL AND CHEMICAL PROPERTIES

Specifications:

Fe Min: 97.8%

C Max: 0.75-0.90%

N max: 0.65-0.90%

O max: 0.15 - 0.40%

d10: 1.7 - 2.7 Micron

d50: 3.9 - 5.2 Micron

d90: 7.2 - 9.2 Micron