

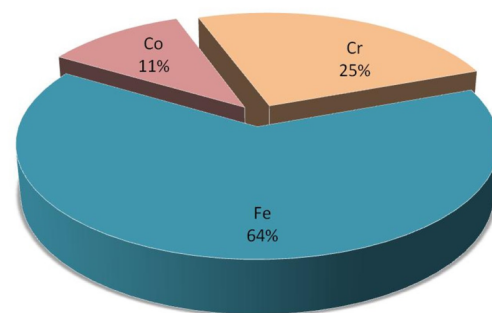


Alloy

Iron Chromium Cobalt

NANOPARTICLES

Iron Chromium Cobalt Alloy Nanopowder



Composition Chart

Fe:Cr:Co

Stock No:

NS6130-07-707

Iron Chrome Cobalt is a metal alloy of cobalt and chromium. Cobalt-chrome has a very high specific strength and is commonly used in gas turbines, dental implants, and orthopedic implants. This material is machinable and malleable and was originally designed as a replacement for CuNiFe. While it can still be used for this, the entire application must be known to match the properties needed. FeCrCo Magnets also have high remanence but low Hc which is similar with AlNiCo Magnets, They also have high working temperature and very low-temperature coefficient of Br which is also similar with AlNiCo Magnets. They are also made magnetism by a process of heat treatment, and they also classified to the isotropic and anisotropic material by the process of magnetic orientation.

Application:

- ✓ Malleable – FeCrCo is easier to machine than AlNiCo
- ✓ FeCrCo can be hot deformed
- ✓ FeCrCo usually does not require any corrosion coating
- ✓ Compasses
- ✓ Hysteresis coupling applications e.g. a multi-pole permanent magnet rotor turning a FeCrCo disc by hysteresis

| | | |
|--------|---|---------------------|
| CAS | : | 7439-89-6 / 7440-47 |
| Purity | : | 99.9% |
| APS | : | <80nm |
| Color | : | Black |
| Form | : | Powder |

Technical Specification

| | | |
|-------------------|---|--------------|
| Molecular Formula | : | Fe:Cr:Co |
| Resistivity | : | 0.79ρ in μΩm |
| Saturation | : | 1.85Jsint |

Chemical Composition

| | | |
|-------------|---|---------|
| Assay | : | 99.9% |
| Fe | : | 64% |
| Cr | : | 25% |
| Co | : | 11% |
| Other Metal | : | < 0.1 % |

ISO 9001:2015
CERTIFIED COMPANY



Follow us:



www.nanoshel.com | sales@nanoshel.com

INTELLIGENT MATERIALS PVT LTD
Derabassi
Punjab (140507)
INDIA

+91 9779 550077, 9779238252

NANOSHEL UK LIMITED
Chapel House,
Chapel St Cheshire,
CW12 4AB United Kingdom

+44 (0) 74 105 488, +44 203 137 5187

NANOSHEL LLC
3422 Old Capitol Suit
1305 Wilmington DE - 19808
United States

+1 646 470 4911