Iron-Chromium 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.

**Chemical Composition**
- Molecular Formula: Fe:Cr:Co
- Density: 0.79 g in µm
- Melting Point: 1.85JsinT

**Technical Specification**
- Assay: 99.9%
- Fe: 64%
- Cr: 25%
- Co: 11%
- Others: < 0.1 %

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Applications

✔ 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

Additional Powder Characteristics

<table>
<thead>
<tr>
<th>Stock No.</th>
<th>Purity</th>
<th>APS</th>
</tr>
</thead>
<tbody>
<tr>
<td>NS6130-07-707</td>
<td>99.9%</td>
<td>&lt;100nm</td>
</tr>
</tbody>
</table>

Ordering Information and Stock Availability

✔ Product: Iron-chromium-cobalt Alloy
✔ Stock Availability: Available
✔ Distribution: Global
✔ Packing Sizes: 25Gms, 50Gms, 100Gms, 500Gms & Bulk Orders

Handling Recommendations

✔ Store in the original container in a dry location.
✔ Tumble contents prior to use to prevent segregation.
✔ Open containers should be stored in a drying oven to prevent moisture pickup.

Safety Recommendations

Download MSDS/SDS NS6130-07-707
SDS is available from the Nanoshel Website at
https://www.nanoshel.com/sections/alloy-nano-powders

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