Iron Nickel alloys are of particular interest because a broad variety of qualitatively different magnetic properties can be obtained by adjusting the composition and the preparation process. There are no restraints to rolling so it is possible to obtain good laminations with thickness down to 10–20 μm, with great benefits for classical losses.

Iron Nickel alloys has applications, such as telecommunications, aeronautical and aerospace engineering, cryogenic engineering (liquefied natural gas tankers) etc, require either high dimensional stability with variation in temperature, or expansion characteristics matched with those of other materials, such as glass, ceramics, or composites.

**Chemical Composition**

- Molecular Formula: Fe:Ni
- Density: 8.39g/cm³
- Melting Point: >14.4 m²/g

**Technical Specification**

- Assay: 99.9%
- Fe: 50%
- Ni: 50%
- Co: 17%
- Others: < 0.1%
Applications

✓ Aircraft gas turbines
✓ Steam turbine power plants
✓ Medical applications
✓ Nuclear power systems
✓ Chemical and petrochemical industries

Additional Powder Characteristics

<table>
<thead>
<tr>
<th>Stock No.</th>
<th>Purity</th>
<th>APS</th>
</tr>
</thead>
<tbody>
<tr>
<td>NS6130-07-705</td>
<td>99.9%</td>
<td>&lt;100nm</td>
</tr>
</tbody>
</table>

Ordering Information and Stock Availability

✓ Product: Iron-nickel alloy nanopowder
✓ 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 NS6130-07-705
SDS is available from the Nanoshel
Website at https://www.nanoshel.com/sections/alloy-nano-powders

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