SLN®
FERRONICKEL SHOT

SLN® 25
BRINGING VALUE TO STAINLESS STEEL MAKERS

ERAMET is the world's leading producer of ferronickel. SLN® ferronickel shot is produced at the Doniambo smelter in New Caledonia. It is specifically designed for continuous controlled feeding to arc furnaces and converters in steelworks.
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Ferronickel is defined by the ISO 6501 standard which SLN® 25 is fully compliant with.

**ANALYSIS**

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<thead>
<tr>
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<th>Typical</th>
<th>Guaranteed</th>
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<tbody>
<tr>
<td>Ni</td>
<td>20 – 28 %</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>1.20 – 2.20 %</td>
<td></td>
</tr>
<tr>
<td>Si</td>
<td>0.30 – 2.10 %</td>
<td></td>
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<tr>
<td>S</td>
<td>0.050 %</td>
<td>Max. 0.070 %</td>
</tr>
<tr>
<td>P</td>
<td>0.014 %</td>
<td>Max. 0.020 %</td>
</tr>
<tr>
<td>Cr</td>
<td>0.65 %</td>
<td></td>
</tr>
<tr>
<td>Co</td>
<td>1/35th of Ni content</td>
<td></td>
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**VARIETY OF APPLICATIONS**

SLN® 25 can be used in all types of equipment for the production of special steel and alloyed cast iron:

- AOD converter
- Electric Arc Furnace EAF
- Oxygen converter
- VOD equipment
- Induction furnace

**CUSTOMERS USAGE VALUE**

- At least 3 tonnes of pure iron provided with each tonne of nickel.
- **Simplified raw material management** with consistency of SLN® 25 analysis thanks to supply integration from mine to refinery.
- **Optimized storage and handling** at customer site with industrial packaging in bulk containers and one analysis per significant size lot (up to 500 tonnes Ni contained) thanks to homogenising equipment.
- **Savings in production costs** due to moderate cooling capacity being 30% lower than stainless scrap or low carbon ferronickel and approximately 4 times lower than nickel oxides.
- **Extremely low presence of harmful elements** in which respect SLN® 25 differs from certain ferro-alloys and scrap, which contain harmful impurities that cannot be eliminated during production.

**Content of harmful trace elements:**

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<tbody>
<tr>
<td>Cu</td>
<td>&lt; 200 ppm</td>
<td>Sn</td>
</tr>
<tr>
<td>Zn</td>
<td>10 to 40 ppm</td>
<td>Pb</td>
</tr>
<tr>
<td>As</td>
<td>&lt; 7 ppm</td>
<td>Bi</td>
</tr>
<tr>
<td>Ag</td>
<td>&lt; 0.2 ppm</td>
<td>Sb</td>
</tr>
</tbody>
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**PHYSICAL PROPERTIES**

SLN® 25 is available in shot form:

- Grain size: approx. 4 – 60 mm
- Free of fines
- Bulk density: 3.6 – 4.1 g / cm³
- Angle of repose: 40 – 50°
- Product supplied dry
- Magnetic

**PACKAGING & HANDLING**

SLN® 25 is supplied in bulk form. It was developed for use in automatic handling and storage equipment, it can be handled with:

- electro-magnet
- buckets
- belt conveyors
- vibrating conveyors
- bucket conveyors

Contact and information: info.nickel@erametgroup.com - www.eramet.com