**Nickel-base**

<table>
<thead>
<tr>
<th>Nickel-base</th>
<th>Particle size µm</th>
<th>C %</th>
<th>Si %</th>
<th>B %</th>
<th>Fe %</th>
<th>Cr %</th>
<th>Ni %</th>
<th>Mo %</th>
<th>Others %</th>
<th>Hardness HRC</th>
<th>HV 30</th>
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<tbody>
<tr>
<td>1015-00</td>
<td>20-106</td>
<td>0.03</td>
<td>2.0</td>
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<td>–</td>
<td>–</td>
<td>Cu</td>
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<td>1.4</td>
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<td>–</td>
<td>20*</td>
<td>230**</td>
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<td>3.0</td>
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<td>–</td>
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<td>–</td>
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<td>270**</td>
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<td>2.7</td>
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<td>360**</td>
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<td>62**</td>
<td>810**</td>
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</tbody>
</table>

**Recommended use/Features/Comments**

- Repair of cast iron, e.g. engine blocks.
- Welding on new cast iron surfaces.
- Repair of machining errors.
- Repair of engine blocks, bearings, threads, wing pumps and press tools.
- Improved fluidity, lower melting point.
- Easy to machine. Can be filed by hand.
- Improved fluidity, lower melting point.
- Repair and build-up of small plungers and neck-rings in the glass bottle manufacturing industry.
- Improved fluidity, lower melting point.
- Repair and build-up of worn parts for moulds, valves, bearings, splines, seal rings, valve gates, water pumps and sprockets.
- Good fluidity.
- All applications with high demand on wear and corrosion resistance, e.g. rocker arms, bearings, diesel engine valves, crusher rolls, conveyor screws, fan blades, textile spindles, pistons, pump shafts, agricultural arms and mixer blades.
- Further improvement of wear resistance can be obtained by mixing with carbides.

* Indicative value
** Measured value

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**Powder welding - particle size effect on weld shape**

Average particle size µm

- Shape of the weld

---

**Effect of B+Si on fluidity and hardness**

% B+Si | HRC
---|---
1060 | 60
1050 | 50
1040 | 40
1020 | 30
1020 | 20

Less Fluidity of weld More

- Fluidity of weld

- Shape of the weld

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* Höganäs