# Werkstoffe

## Nickel

<table>
<thead>
<tr>
<th>Legierung</th>
<th>DN Markenname</th>
<th>Material Nr. / UNS</th>
<th>Spezifikation</th>
<th>Richtanalyse</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>R-Nickel 99,2</td>
<td>2.4066 / N02200</td>
<td>ASTM B160 DIN 17740</td>
<td>Ni min. 99,2%</td>
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<tr>
<td>201</td>
<td>NR-Nickel 99</td>
<td>2.4068 / N02201</td>
<td>ASTM B160 DIN 17740 VdTÜV-345</td>
<td>Ni min. 99%, C max. 0,02%</td>
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<tr>
<td>Ni 99,6</td>
<td>BR-Nickel 99,6</td>
<td>2.4060</td>
<td>DIN 17740</td>
<td>Ni min. 99,6%</td>
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<tr>
<td>LC-Ni 99,6</td>
<td>NR-Nickel 99,6</td>
<td>2.4061</td>
<td>DIN 17740</td>
<td>Ni min. 99,2%, C max. 0,02%</td>
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<tr>
<td>205</td>
<td>Ni 205</td>
<td>N02205</td>
<td>ASTM F3 Grade 2</td>
<td>Ni min. 99,0%, Mg 0,01 – 0,08%, Ti 0,01 – 0,05%</td>
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<tr>
<td>212</td>
<td>NiMn2</td>
<td>2.4110 / N02212</td>
<td>DIN 17741</td>
<td>Ni 98%, Mn 2%</td>
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<tr>
<td>211</td>
<td>NiMn5</td>
<td>2.4116 / N02211</td>
<td>DIN 17741</td>
<td>Ni 95%, Mn 5%</td>
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<tr>
<td>Ni 99,9</td>
<td>BR-Ni 99,9</td>
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<td>Ni 99,9%</td>
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## Eisen-Nickel-Legierungen

<table>
<thead>
<tr>
<th>Legierung</th>
<th>DN Markenname</th>
<th>Material Nr. / UNS</th>
<th>Spezifikation</th>
<th>Richtanalyse</th>
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<tbody>
<tr>
<td>NiCo29/18</td>
<td>Dilaton 29/18</td>
<td>1.3981 / K94610</td>
<td>ASTM F15 DIN 17745 / SEW 385</td>
<td>Fe 53%, Ni 29%, Co 18%</td>
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<tr>
<td>FeNi36</td>
<td>Dilaton 36</td>
<td>1.3912 / K93603</td>
<td>ASTM F1684 DIN 17745 / SEW 385</td>
<td>Fe 64%, Ni 36%</td>
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<tr>
<td>FeNi36</td>
<td>Dilaton 36M</td>
<td>1.3911</td>
<td>DIN 17745 / SEW 385</td>
<td>Fe 64%, Ni 36%</td>
</tr>
<tr>
<td>FeNi42</td>
<td>Dilaton 41</td>
<td>K94100</td>
<td>ASTM F30</td>
<td>Fe 59%, Ni 41%</td>
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<tr>
<td>FeNi42</td>
<td>Dilaton 42</td>
<td>1.3917</td>
<td>DIN 17745 / SEW 385</td>
<td>Fe 58%, Ni 42%</td>
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<tr>
<td>FeNi48</td>
<td>Dilaton 48</td>
<td>1.3922 / K94800</td>
<td>ASTM F30 DIN 17745 / SEW 385</td>
<td>Fe 52%, Ni 48%</td>
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<tr>
<td>NiFe47Cr6</td>
<td>Dilaton 48Cr6</td>
<td>2.4486 / N14052</td>
<td>DIN 17745 / SEW 385</td>
<td>Fe 46%, Ni 47%, Cr 6%</td>
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<tr>
<td>W48</td>
<td>W48 weichmagnetisch</td>
<td>1.3922</td>
<td>DIN 17745</td>
<td>Fe 52%, Ni 48%</td>
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### Kupfer-Nickel-Legierungen

<table>
<thead>
<tr>
<th>Legierung</th>
<th>DN Markenname</th>
<th>Material Nr. / UNS</th>
<th>Spezifikation</th>
<th>Richtanalyse</th>
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<tbody>
<tr>
<td>CuNi1</td>
<td>CuNi1</td>
<td>- / -</td>
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<td>Cu 99%, Ni 1%</td>
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<tr>
<td>CuNi2</td>
<td>CuNi2</td>
<td>2.0802 / C70200</td>
<td>DIN 17471 ASTM B267</td>
<td>Cu 98%, Ni 2%</td>
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<tr>
<td>CuNi6</td>
<td>CuNi6</td>
<td>2.0807 / C70500</td>
<td>DIN 17471 ASTM B267</td>
<td>Cu 94%, Ni 6%</td>
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<tr>
<td>CuNi10</td>
<td>CuNi10</td>
<td>2.0811 / C70700</td>
<td>DIN 17471 ASTM B267</td>
<td>Cu 90%, Ni 10%</td>
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<tr>
<td>CuNi10Fe1Mn</td>
<td>CuNi10Fe1Mn</td>
<td>(2.0872) / (CW352H) C70600</td>
<td>ASTM B151</td>
<td>Cu 88%, Ni 10%, Fe 1,5%</td>
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<td>CuNi15</td>
<td>CuNi15</td>
<td>-</td>
<td>-</td>
<td>Cu 85%, Ni 15%</td>
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<tr>
<td>CuNi23Mn</td>
<td>CuNi23Mn</td>
<td>2.0881 / C71100</td>
<td>DIN 17471 ASTM B267</td>
<td>Cu 76%, Ni 23%, Mn 0,5%</td>
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<tr>
<td>CuNi30Mn</td>
<td>CuNi30Mn</td>
<td>2.0890</td>
<td>-</td>
<td>Cu 70%, Ni 30%</td>
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<tr>
<td>CuNi30Mn1Fe</td>
<td>CuNi30Mn1Fe</td>
<td>(2.0882) / (CW354H) C71500</td>
<td>ASTM B151</td>
<td>Cu 69%, Ni 30%, Fe 0,7%</td>
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<tr>
<td>CuNi44Mn1</td>
<td>Vernicon</td>
<td>(2.0842) / C72150</td>
<td>DIN 17471 (DIN 17664) ASTM B151</td>
<td>Cu 55%, Ni 44%</td>
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### Nickel-Kupfer-Legierungen

<table>
<thead>
<tr>
<th>Legierung</th>
<th>DN Markenname</th>
<th>Material Nr. / UNS</th>
<th>Spezifikation</th>
<th>Richtanalyse</th>
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<tbody>
<tr>
<td>400</td>
<td>Silverin 400</td>
<td>2.4360 / N04400</td>
<td>ASTM B164 ASTM B564 VdTÜV-263 DIN 17743 QQN281</td>
<td>Ni 64%, Cu 32%, Fe 2%, Mn 1,2%</td>
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<tr>
<td>400LC</td>
<td>Silverin 400LC</td>
<td>2.4361</td>
<td>DIN 17743</td>
<td>Ni 64%, Cu 32%, Fe 2%, Mn 1,2%, C ≤ 0,04%</td>
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<tr>
<td>405</td>
<td>Silverin 405</td>
<td>2.4363 / N04405</td>
<td>ASTM B164 DIN 17743 QQN281</td>
<td>Ni 64%, Cu 32%, Fe 1,5%, Mn 1,9%, S 0,04%</td>
</tr>
<tr>
<td>Legierung</td>
<td>DN Markenname</td>
<td>Material Nr. / UNS</td>
<td>Spezifikation</td>
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<tr>
<td>K500</td>
<td>Silverin 500</td>
<td>2.4375 / N05500</td>
<td>ASTM B865 / DIN 17743 / QQN286</td>
<td>Ni 65%, Cu 30%, Al 3%, Fe 0,8%, Ti 0,6%</td>
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**Nickel-Chrom-Eisen-Legierungen**

<table>
<thead>
<tr>
<th>Legierung</th>
<th>DN Markenname</th>
<th>Material Nr. / UNS</th>
<th>Spezifikation</th>
<th>Richtanalyse</th>
</tr>
</thead>
<tbody>
<tr>
<td>600</td>
<td>Ferrochronin 600</td>
<td>2.4816 / N06600</td>
<td>ASTM B564 / B166 / DIN 17742</td>
<td>Ni 74%, Cr 16%, Fe 9%</td>
</tr>
<tr>
<td>LC-NiCr 15 Fe</td>
<td>Ferrochronin 600LC</td>
<td>2.4817 / 2.4610 / N06455</td>
<td>DIN 17742</td>
<td>Ni 77%, Cr 14,5%, Fe 7,5%, C &lt; 0,025%</td>
</tr>
<tr>
<td>601</td>
<td>Ferrochronin 601</td>
<td>2.4851 / N06601</td>
<td>ASTM B166 / DIN 17742</td>
<td>Ni 61%, Cr 23%, Fe 14%, Al 1,4%</td>
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</table>

**Nickel-Chrom-Legierungen**

<table>
<thead>
<tr>
<th>Legierung</th>
<th>DN Markenname</th>
<th>Material Nr. / UNS</th>
<th>Spezifikation</th>
<th>Richtanalyse</th>
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<tbody>
<tr>
<td>625</td>
<td>Chronin 625</td>
<td>2.4856 / N06625</td>
<td>ASTM B446 / B564 / DIN 17744</td>
<td>Ni 60%, Cr 22%, Mo 9%, Fe 4%, Nb 3,5%, Ti 0,3%</td>
</tr>
<tr>
<td>C4</td>
<td>Chronin C4</td>
<td>2.4610 / N06455</td>
<td>ASTM B574 / DIN 17744</td>
<td>Ni 67%, Cr 16%, Mo 16%, Ti 0,5%</td>
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<tr>
<td>C22</td>
<td>Chronin C22</td>
<td>2.4602 / N06022</td>
<td>ASTM B564 / B574 / DIN 17744 / DIN EN ISO 15156</td>
<td>Ni 57%, Cr 21,5%, Mo 13,5%, Fe 4%, W 3,5%</td>
</tr>
<tr>
<td>C276</td>
<td>Chronin C276</td>
<td>2.4819 / N10276</td>
<td>ASTM B574 / B564 / DIN 17744 / DIN EN ISO 15156</td>
<td>Ni 58%, Cr 16%, Mo 16%, Fe 6%, W 4%</td>
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<tr>
<td>718</td>
<td>Chronin 718</td>
<td>2.4668 / N07718</td>
<td>API 6A / ASTM B637 / DIN 17744 / DIN EN ISO 15156 / NACE MR 0175</td>
<td>Ni 54%, Fe 18%, Cr 18,5%, Nb 5%, Mo 3%, Ti 1%</td>
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<tr>
<td>80A</td>
<td>NiCr20TiAl</td>
<td>2.4952 / N07080</td>
<td>DIN 17742 / DIN EN 10090 / DIN EN 10269 / ASTM B637</td>
<td>Ni 75%, Cr 20%, Ti 2,2%, Al 1,4%</td>
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<tr>
<td>925</td>
<td>Chronin 925</td>
<td>2.4852 / N09925</td>
<td>ASTM B637 / ASTM B805 / API Standard 6A CRA</td>
<td>Ni 44%, Cr 21%, Fe 27%, Mo 3%, Ti 2,2%, Cu 1,9%</td>
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Zündkerzen-/Glühkerzen-Legierungen

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<th>Material Nr. / UNS</th>
<th>Spezifikation</th>
<th>Richtanalyse</th>
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<tbody>
<tr>
<td>NiY</td>
<td>NiSi1Al1Y</td>
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<td>Ni 97%, Si 1%, Al 1%, Y 0,15%</td>
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<tr>
<td>600</td>
<td>Ferrochronin 600</td>
<td>2.4816 / N06600</td>
<td>DIN 17742</td>
<td>Ni 74%, Cr 16%, Fe 9%</td>
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<tr>
<td>-</td>
<td>NiMn4Si</td>
<td>(2.4190)</td>
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<td>Ni 95%, Mn 4%, Si 1%</td>
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<td>522</td>
<td>NiMn2CrSiTiZr</td>
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<td>Ni 95%, Mn 2%, Cr 2%, Si 0,5%, Ti 0,3%, Zr 0,15%</td>
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<tr>
<td>-</td>
<td>NiCr2Al2Si2</td>
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<td>-</td>
<td>Ni 94%, Cr 2%, Al 2%, Si 2%</td>
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<tr>
<td>-</td>
<td>NiCr2Mn2Si</td>
<td>2.4146</td>
<td>DIN 17742</td>
<td>Ni 96%, Cr 1,6%, Mn 1,6%, Si 0,5%</td>
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<tr>
<td>602CA</td>
<td>NiCr25FeAlY</td>
<td>2.4633 / N06025</td>
<td>ASTM B166 / B564, DIN 17742 / 17752 / 17752, DIN EN 10302</td>
<td>Ni 63%, Cr 25%, Fe 9%, Al 2%, Y 0,1%</td>
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<tr>
<td>Ni 99,9</td>
<td>BR-Ni 99,9</td>
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<tr>
<td>CoFe8</td>
<td>CoFe8</td>
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<td>Co 92%, Fe 8%</td>
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<tr>
<td>Legierung</td>
<td>DN Markenname</td>
<td>Material Nr.</td>
<td>AWS Normen</td>
<td>DIN Normen</td>
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<tr>
<td>FM 82</td>
<td>IGS-Chronin 82</td>
<td>(2.4806)</td>
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<td>NiCr 80/20</td>
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<td>FM 65</td>
<td>IGS-Chronin 825</td>
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<td>DIN EN ISO 18274 S Ni 8065</td>
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<td>FM 718</td>
<td>IGS-Chronin 718</td>
<td>(2.4667)</td>
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<td>DIN EN ISO 18274 S Ni 7718</td>
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<tr>
<td>FM 182</td>
<td>IGS-Chronin A</td>
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<td>AWS 5.11 ENiCrFe-3</td>
<td>DIN EN ISO 14172 E Ni 6182</td>
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<tr>
<td>FM 617</td>
<td>IGS-Chronin 617</td>
<td>(2.4627)</td>
<td>AWS A5.14 ERNiCrMo-1</td>
<td>DIN EN ISO 18274 S Ni 6617</td>
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<td>FM 625</td>
<td>IGS-Chronin 625</td>
<td>(2.4831)</td>
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<td>DIN EN ISO 18274 S Ni 6625</td>
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<td>FM C276</td>
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<td>(2.4886)</td>
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<td>FM 22</td>
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<td>DIN EN ISO 18274 S Ni 6059</td>
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<td>FeNi36</td>
<td>IGS-Dilaton 36Nb</td>
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<td>FeNi54</td>
<td>IGS-Dilaton 54Mn</td>
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<td>AWS A5.15</td>
<td>DIN EN ISO 1071 S NiFe-2</td>
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<td>Material Nr.</td>
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<td>FeNi55</td>
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<td>FeNi60</td>
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<td>FM 60</td>
<td>IGS-Silverin 400</td>
<td>(2.4377)</td>
<td>AWS A5.14</td>
<td>DIN EN ISO</td>
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<tr>
<td>FM 67</td>
<td>IGS-CuNi30Fe</td>
<td>(2.0837)</td>
<td>AWS A5.7</td>
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<td>CuNi 90/10</td>
<td>IGS-CuNi10Fe</td>
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<td>FM 61</td>
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<td>2.4066</td>
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<td>DIN 17740</td>
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<tr>
<td>NiAl5</td>
<td>NiAl5C</td>
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</table>

**Drähte für Additive Manufacturing**

<table>
<thead>
<tr>
<th>Legierung</th>
<th>DN Markenname</th>
<th>Material Nr.</th>
<th>ASTM Normen</th>
<th>DIN Normen</th>
<th>Richtanalyse</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alloy 718</td>
<td>DN-718 AM</td>
<td>2.4668</td>
<td>ASTM B637</td>
<td>DIN 17744</td>
<td>Ni 54%, Cr 18%, Fe 18%, Nb 5%, Mo 3%, Ti 1%</td>
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<td>Alloy 625</td>
<td>DN-625 AM</td>
<td>2.4856</td>
<td>ASTM B446</td>
<td>DIN 17744</td>
<td>Ni 60%, Cr 22%, Mo 9%, Fe 4%, Nb 3,5%, Ti 0,3%</td>
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<td>-</td>
<td>DN-48Cr6 AM</td>
<td>2.4486</td>
<td>-</td>
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<td>Ni 47%, Fe 46%, Cr 6%</td>
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<tr>
<td>FeNi36</td>
<td>DN-36Nb AM</td>
<td>-</td>
<td>-</td>
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<td>Fe 62%, Ni 36%, Nb 1%, Ti 0,2%</td>
</tr>
</tbody>
</table>
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