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### O, N, H, C, S in Stahl (Steel)

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F 100-1
38.1 35.7
- -
- -
ug/g 250
Ø 3.97, 0.2547g, Ball Stahl, niedr. leg, goldplatiert (Steel, low alloy, gold plated)

F 200S-1
89.8 312
- -
- -
ug/g 250
Ø 5.00, 0.5188g, Ball Stahl, hoch leg, goldplatiert (Steel, high alloy, gold plated)

IT IW1-02
- -
0.131 0.020
- -
% 100g
Chip, Cr18Ni19

IT IW1-04
- -
0.072 0.012
- -
% 100g
Chip, Ni13

IT IW1-05
- -
0.11 0.018
- -
% 100g
Chip, Kohlenstoffstahl (Carbon Steel)

IT IW2-01
- -
0.0095 -
- -
% 100g
Chip, Kohlenstoffstahl (Carbon Steel)

IT IW2-03
- -
0.0170 -
- -
% 100g
Chip, Kohlenstoffstahl (Carbon Steel)

IT IW2-04
- -
0.0190 -
- -
% 100g
Chip, Kohlenstoffstahl (Carbon Steel)

IT IW2-05
- -
0.0033 -
- -
% 100g
Chip, Armcoeisen (Armco Iron)

IT IW2-06
- -
0.0410 -
- -
% 100g
Chip, Cr13

IT IW2-07
- -
0.0400 -
- -
% 100g
Chip, Cr17Ni11

IT IW2-08
- -
0.0200 -
- -
% 100g
Chip, Cr10Ni20

IT IW2-09
- -
0.0220 -
- -
% 100g
Chip, Cr18Ni10
### O, N, H, C, S in Stahl (Steel)

<table>
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<th>O</th>
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<th>Einheit</th>
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<td>-</td>
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<td>-</td>
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<td>0.793</td>
<td>0.200</td>
<td>%</td>
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| J 37   | -     | -    | -    | -    | 0.0002 | 0.00016 | %     | 250g Chip                    |
| J 38   | -     | -    | -    | -    | 0.0003 | 0.00024 | %     | 250g Chip                    |

| J 39   | -     | -    | -    | -    | 0.0005 | 0.00034 | %     | 250g Chip                    |

| J 40   | -     | -    | -    | -    | 0.0006 | 0.00038 | %     | 250g Chip                    |

| J 41   | -     | -    | -    | -    | 0.0009 | 0.00052 | %     | 250g Chip                    |

| J 42   | -     | -    | -    | -    | 0.0012 | 0.00079 | %     | 250g Chip                    |

| J 43   | -     | -    | -    | -    | 0.0018 | 0.00117 | %     | 250g Chip                    |

### O, N, H, C, S in Stahl (Steel)

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<th>H</th>
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<td>-</td>
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### O, N, H, C, S in Stahl (Steel)

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**Referenzmaterial für Verbrennungsanalyse - Stahl**

(Reference Material for Combustion Analysis - Steel)
### Referenzmaterial für Verbrennungsanalyse - Stahl

#### 8.1.4

**N, C + S in Stahl (Steel)**

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**N, C, S, P in Stahl (Steel)**

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O, N, H, C, S in Stahl (Steel)

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<td>0.027</td>
<td>%</td>
<td>454g</td>
<td>1g Pin</td>
</tr>
<tr>
<td>AR 510</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>2.50</td>
<td>0.075</td>
<td>%</td>
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<td>0.5g Pin</td>
</tr>
<tr>
<td>AR 511</td>
<td>-</td>
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<td>%</td>
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<td>-</td>
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<td>0.035</td>
<td>0.022</td>
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<td>454g</td>
<td>1g Ring, Sn-plat.</td>
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<tr>
<td>AR 871</td>
<td>-</td>
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<td>-</td>
<td>0.050</td>
<td>0.012</td>
<td>%</td>
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<tr>
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<td>-</td>
<td>-</td>
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<td>AR 873</td>
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<tr>
<td>AR 874</td>
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<tr>
<td>AR 875</td>
<td>-</td>
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<td>454g</td>
<td>1g Ring, Sn-plat.</td>
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### O, N, H, C, S in Stahl (Steel)

<table>
<thead>
<tr>
<th>RM</th>
<th>O*</th>
<th>N*</th>
<th>H*</th>
<th>C*</th>
<th>S*</th>
<th>Einheit</th>
<th>Pack.</th>
<th>Form</th>
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<tr>
<td>AR 950</td>
<td>-</td>
<td>0.0016</td>
<td>-</td>
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<td>Chip, Kohlenstoffstahl (Type 1005 Plain Carbon)</td>
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<tr>
<td>AR 951</td>
<td>-</td>
<td>0.0087</td>
<td>-</td>
<td>0.176</td>
<td>0.024</td>
<td>%</td>
<td>150g</td>
<td>Chip, Kohlenstoffstahl (Type 1018 Plain Carbon)</td>
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<tr>
<td>AR 952</td>
<td>-</td>
<td>0.0012</td>
<td>-</td>
<td>0.493</td>
<td>0.039</td>
<td>%</td>
<td>150g</td>
<td>Chip, Kohlenstoffstahl (Type 1045 Plain Carbon)</td>
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<tr>
<td>AR 953</td>
<td>-</td>
<td>0.0101</td>
<td>-</td>
<td>1.00</td>
<td>0.008</td>
<td>%</td>
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<td>Chip, Kohlenstoffstahl (Type 1095 Plain Carbon)</td>
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<tr>
<td>AR 954</td>
<td>-</td>
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<td>0.021</td>
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<tr>
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<td>-</td>
<td>0.0054</td>
<td>-</td>
<td>0.057</td>
<td>0.031</td>
<td>%</td>
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<tr>
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<td>0.0800</td>
<td>-</td>
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<td>0.020</td>
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<td>-</td>
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<td>0.0005</td>
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<td>150g</td>
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<td>-</td>
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<td>0.0161</td>
<td>%</td>
<td>150g</td>
<td>Chip, Stahl, hoch leg. (Type 316L Stainless)</td>
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### O, N, H, C, S in Stahl (Steel)

<table>
<thead>
<tr>
<th>RM</th>
<th>O*</th>
<th>N*</th>
<th>H*</th>
<th>Einheit</th>
<th>Pack.</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>1011</td>
<td>-</td>
<td>-</td>
<td>wg/g</td>
<td>50g</td>
<td>0.5g Pin</td>
</tr>
<tr>
<td>9</td>
<td>110</td>
<td>15</td>
<td>-</td>
<td>wg/g</td>
<td>100g</td>
<td>1.0g Pin (Ø 5x6.5 mm) No certificate, values on bottle</td>
</tr>
<tr>
<td>9</td>
<td>175</td>
<td>60</td>
<td>-</td>
<td>wg/g</td>
<td>100g</td>
<td>1.0g Pin (Ø 5x6.5 mm)</td>
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<tr>
<td>9</td>
<td>12</td>
<td>140</td>
<td>-</td>
<td>wg/g</td>
<td>100g</td>
<td>1.0g Pin (Ø 5x6.5 mm)</td>
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<tr>
<td>9</td>
<td>-</td>
<td>7</td>
<td>-</td>
<td>wg/g</td>
<td>100g</td>
<td>10g Stab/Rod (Ø 4x100 mm)</td>
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## C + S in Gußeisen (Cast Iron)

<table>
<thead>
<tr>
<th>*</th>
<th>C</th>
<th>S</th>
<th>Einheit</th>
<th>Pack.</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>VS CH5</td>
<td>2.40</td>
<td>0.0052</td>
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<td>Pulver (powder)</td>
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<tr>
<td>AR 301</td>
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</tr>
<tr>
<td>VS CH7</td>
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<td>0.025</td>
<td>100g</td>
<td>Pulver (powder)</td>
<td></td>
</tr>
<tr>
<td>VS CH1</td>
<td>3.21</td>
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<td>100g</td>
<td>Pulver (powder)</td>
<td></td>
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<tr>
<td>VS CH16</td>
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<tr>
<td>AR 305</td>
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<td>0.015</td>
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<td></td>
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<tr>
<td>J 334</td>
<td>2.83</td>
<td>0.043</td>
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<tr>
<td>VS CH8</td>
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<td>0.0095</td>
<td>100g</td>
<td>Pulver (powder)</td>
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<tr>
<td>GB 01118</td>
<td>2.88</td>
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<tr>
<td>VS CH6</td>
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<td>Pulver (powder)</td>
<td></td>
</tr>
<tr>
<td>VS CH15</td>
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<td>0.040</td>
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<td>BR K3</td>
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</tr>
<tr>
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<tr>
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<tr>
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<tr>
<td>TH 1050</td>
<td>3.424</td>
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<tr>
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<td>150g</td>
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</tr>
<tr>
<td>AR 302</td>
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</tr>
<tr>
<td>VS CH10</td>
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<td>0.076</td>
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<tr>
<td>VS CH2</td>
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</tr>
<tr>
<td>TH 1023-2</td>
<td>3.62</td>
<td>0.0206</td>
<td>100g</td>
<td>Pulver (powder)</td>
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</tr>
<tr>
<td>GB 01111</td>
<td>3.64</td>
<td>0.016</td>
<td>150g</td>
<td>Pulver (powder)</td>
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<tr>
<td>AR 309</td>
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<tr>
<td>VS CH14</td>
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<tr>
<td>AR 323</td>
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<tr>
<td>VS CH9</td>
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<td>AR 303</td>
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<tr>
<td>AR 310</td>
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</tr>
<tr>
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</tr>
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<td>AR 304</td>
<td>4.15</td>
<td>0.014</td>
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<td>Pulver (powder)</td>
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</tr>
<tr>
<td>VS CH13</td>
<td>4.16</td>
<td>0.034</td>
<td>100g</td>
<td>Pulver, gekörnt, in Argon verdüst (Powder, coarse, Argon sprayed)</td>
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</tr>
<tr>
<td>GB 01113</td>
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<td>150g</td>
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<tr>
<td>VS CH12</td>
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<td>Pulver, gekörnt, in Argon verdüst (Powder, coarse, Argon sprayed)</td>
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<tr>
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<td>VS CH11</td>
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<td>Pulver, (powder)</td>
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* Proben mit Präfix 3, GB und VS sind CRM-Proben, alle anderen RM-Proben
(Samples with prefix 3, GB and VS are CRM-samples, all others are RM-samples)
### C + S + weitere Elemente in Karbiden (Carbides)

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<thead>
<tr>
<th>CRM</th>
<th>C (tot)</th>
<th>C (graph)</th>
<th>S</th>
<th>O</th>
<th>Fe</th>
<th>Ta</th>
<th>Nb</th>
<th>Einheit</th>
<th>Pack.</th>
<th>Form</th>
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</thead>
<tbody>
<tr>
<td>5 352/1</td>
<td>6.154</td>
<td>0.036</td>
<td>-</td>
<td>-</td>
<td>0.0029</td>
<td>-</td>
<td>-</td>
<td>%</td>
<td>100g</td>
<td>Pulver (Powder), Wolframkarbid (Tungsten Carbide)</td>
</tr>
<tr>
<td>GB 02801</td>
<td>6.10</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>%</td>
<td>100g</td>
<td>Pulver (Powder), Wolframkarbid (Tungsten Carbide)</td>
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<td>H 102</td>
<td>-</td>
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<td>-</td>
<td>185</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>mg/g</td>
<td>2-3g</td>
<td>Ampulle, verschl. (Sealed Vial), Wolframkarbid (Tungsten Carbide)</td>
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### N in Ferroleg. (Ferro-Alloys)

<table>
<thead>
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<th>N</th>
<th>Einheit</th>
<th>Pack.</th>
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</thead>
<tbody>
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<tr>
<td>VS F15/1</td>
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<td>Pulver (Powder) FeCr</td>
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<td>VS F32/1</td>
<td>7.5</td>
<td>%</td>
<td>100g</td>
<td>Pulver (Powder) FeV</td>
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### O, N, H, C, S in Nichteisen-Metallen (Non-Ferrous Metals)

<table>
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<th>O</th>
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<th>H</th>
<th>C</th>
<th>S</th>
<th>B</th>
<th>P</th>
<th>Einheit</th>
<th>Pack.</th>
<th>Form</th>
</tr>
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<tbody>
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<td>IM Cu50</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>ug/g</td>
<td>250g</td>
<td>Chip (Copper)</td>
</tr>
<tr>
<td>IM Cu90</td>
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<td>-</td>
<td>-</td>
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<td>-</td>
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<td>250g</td>
<td>Chip (Copper)</td>
</tr>
<tr>
<td>H 017A</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<td>7.0</td>
<td>-</td>
<td>-</td>
<td>ug/g</td>
<td>50g</td>
<td>Scheibe (disc), Ø 40x30 mm (Copper)</td>
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<td>7.0</td>
<td>-</td>
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<td>ug/g</td>
<td>50g</td>
<td>Chip (Copper)</td>
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<td>ug/g</td>
<td>23g</td>
<td>Chip (Copper)</td>
</tr>
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<td>ug/g</td>
<td>23g</td>
<td>Chip (Copper)</td>
</tr>
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<td>Scheibe (disc), Ø 26x9 mm (Copper)</td>
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6 HPm1 (1400) 15 (70) 270 5 1g Pulver (Powder) Nickel

### Organische Standards und Reagenzien (Organic Standards and Reagents)

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**Notes:**
- **Pack.:** Einheit (Units)
- **Form:** Kupfer (Copper), Titan (Titanium), Zirkonium (Zirconium)
### C, H, N, S in Pflanzenmatrix (Plant Matrices)

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**Einheit**
- %

**Pack.**
- 30g

**Einzelheiten**
- Sojabohnen (Soy Bean Meal)
- Maisgluten (Corn Glutin)
- Alflafa, Luzerne (Alfalfa)
- Weizenmehl (Wheat Meal)
- Roggenmehl (Rye Flour)
- Maismehl (Corn Meal)
- Hafermehl (Oat Meal)
- Gerste (Barley)
- Reis (Rice)