

## **Low alloy Steel for solid spectrometry, combustion and wet-way methods, Disc Ø 37 mm x 25 mm, Set**

Art. ID CZ-SPL-300A-307A-Set  
Unit set of 8 disc  
Deliverydetails No Dangerous Good /not restricted

| Text/Information | Analyte/Parameter | CAS number  | Concentration/Value | Unit | Method | Source |
|------------------|-------------------|-------------|---------------------|------|--------|--------|
| CZ-SPL-300A      | Iron (Fe)         | [7439-89-6] | Base                |      |        |        |
| CZ-SPL-300A      | Carbon (C)        | [7440-44-0] | 0,0033              | %    |        |        |
| CZ-SPL-300A      | Manganese (Mn)    | [7439-96-5] | 0,039               | %    |        |        |
| CZ-SPL-300A      | Silicon (Si)      | [7440-21-3] | 0,0032              | %    |        |        |
| CZ-SPL-300A      | Phosphorus (P)    | [7723-14-0] | 0,0035              | %    |        |        |
| CZ-SPL-300A      | Sulfur (S)        | [7704-34-9] | 0,0021              | %    |        |        |
| CZ-SPL-300A      | Copper (Cu)       | [7440-50-8] | 0,008               | %    |        |        |
| CZ-SPL-300A      | Chromium (Cr)     | [7440-47-3] | 0,0092              | %    |        |        |
| CZ-SPL-300A      | Nickel (Ni)       | [7440-02-0] | 0,0075              | %    |        |        |
| CZ-SPL-300A      | Aluminium (Al)    | [7429-90-5] | 0,0017              | %    |        |        |
| CZ-SPL-300A      | Molybdenum (Mo)   | [7439-98-7] | 0,0015              | %    |        |        |
| CZ-SPL-300A      | Tungsten (W)      | [7440-33-7] | ~0,0017             | %    |        |        |
| CZ-SPL-300A      | Vanadium (V)      | [7440-62-2] | ~0,0011             | %    |        |        |
| CZ-SPL-300A      | Titanium (Ti)     | [7440-32-6] | ~0,0004             | %    |        |        |
| CZ-SPL-300A      | Cobalt (Co)       | [7440-48-4] | 0,0022              | %    |        |        |
| CZ-SPL-300A      | Arsenic (As)      | [7440-38-2] | 0,0027              | %    |        |        |
| CZ-SPL-300A      | Tin (Sn)          | [7440-31-5] | ~0,0008             | %    |        |        |
| CZ-SPL-300A      | Boron (B)         | [7440-42-8] | ~0,0002             | %    |        |        |
| CZ-SPL-300A      | Antimony (Sb)     | [7440-36-0] | ~0,0015             | %    |        |        |
| CZ-SPL-300A      | Lead (Pb)         | [7439-92-1] | ~0,0007             | %    |        |        |
| CZ-SPL-300A      | Zinc (Zn)         | [7440-66-6] | ~0,0007             | %    |        |        |
| CZ-SPL-300A      | Nitrogen (N)      | [7727-37-9] |                     | %    |        |        |
| CZ-SPL-300A      | Bismuth (Bi)      | [7440-69-9] | 0,0028              | %    |        |        |
| CZ-SPL-300A      | Tantalum (Ta)     | [7440-25-7] | ~0,003              | %    |        |        |
| CZ-SPL-301A      | Iron (Fe)         | [7439-89-6] | Base                |      |        |        |
| CZ-SPL-301A      | Carbon (C)        | [7440-44-0] | 0,176               |      |        |        |
| CZ-SPL-301A      | Manganese (Mn)    | [7439-96-5] | 0,902               |      |        |        |
| CZ-SPL-301A      | Silicon (Si)      | [7440-21-3] | 0,384               |      |        |        |
| CZ-SPL-301A      | Phosphorus (P)    | [7723-14-0] | 0,0322              |      |        |        |
| CZ-SPL-301A      | Sulfur (S)        | [7704-34-9] | 0,026               |      |        |        |

|             |                 |              |         |   |
|-------------|-----------------|--------------|---------|---|
| CZ-SPL-301A | Copper (Cu)     | [7440-50-8]  | 0,154   |   |
| CZ-SPL-301A | Chromium (Cr)   | [7440-47-3]  | 0,831   |   |
| CZ-SPL-301A | Nickel (Ni)     | [7440-02-0]  | 0,751   |   |
| CZ-SPL-301A | Aluminium (Al)  | [7429-90-5]  | 0,0136  |   |
| CZ-SPL-301A | Molybdenum (Mo) | [7439-98-7]  | 0,44    |   |
| CZ-SPL-301A | Tungsten (W)    | [7440-33-7]  | 0,275   |   |
| CZ-SPL-301A | Vanadium (V)    | [7440-62-2]  | 0,262   |   |
| CZ-SPL-301A | Titanium (Ti)   | [7440-32-6]  | 0,107   |   |
| CZ-SPL-301A | Cobalt (Co)     | [7440-48-4]  | 0,0498  |   |
| CZ-SPL-301A | Arsenic (As)    | [7440-38-2]  | 0,006   |   |
| CZ-SPL-301A | Tin (Sn)        | [7440-31-5]  | 0,0875  |   |
| CZ-SPL-301A | Boron (B)       | [7440-42-8]  | 0,0054  |   |
| CZ-SPL-301A | Niobium (Nb)    | [7440-03-1]  | 0,0559  |   |
| CZ-SPL-301A | Antimony (Sb)   | [7440-36-0]  | 0,019   |   |
| CZ-SPL-301A | Lead (Pb)       | [7439-92-1]  | 0,0059  |   |
| CZ-SPL-301A | Zirconium (Zr)  | [7440-67-7]  | ~0,0013 |   |
| CZ-SPL-301A | Zinc (Zn)       | [7440-66-6]  | ~0,0011 |   |
| CZ-SPL-301A | Nitrogen (N)    | [7727-37-9]  | 0,0098  |   |
| CZ-SPL-301A | Bismuth (Bi)    | [7440-69-9]  | ~0,001  |   |
| CZ-SPL-301A | Cerium (Ce)     | [7440-45-1]  | 0,0134  |   |
| CZ-SPL-301A | Calcium (Ca)    | [7440-70-2]  | ~0,0003 |   |
| CZ-SPL-301A | Tantalum (Ta)   | [7440-25-7]  | 0,036   |   |
| CZ-SPL-301A | Tellurium (Te)  | [13494-80-9] | ~0,006  |   |
| CZ-SPL-301A | Lanthanum (La)  | [7439-91-0]  | ~0,002  |   |
| CZ-SPL-301A | Selenium (Se)   | [7782-49-2]  | ~0,007  |   |
| CZ-SPL-301A | Neodymium (Nd)  | [7440-00-8]  | ~0,002  |   |
| CZ-SPL-302A | Iron (Fe)       | [7439-89-6]  | Base    |   |
| CZ-SPL-302A | Carbon (C)      | [7440-44-0]  | 0,118   | % |
| CZ-SPL-302A | Manganese (Mn)  | [7439-96-5]  | 0,471   | % |
| CZ-SPL-302A | Silicon (Si)    | [7440-21-3]  | 0,691   | % |
| CZ-SPL-302A | Phosphorus (P)  | [7723-14-0]  | 0,051   | % |
| CZ-SPL-302A | Sulfur (S)      | [7704-34-9]  | 0,0096  | % |
| CZ-SPL-302A | Copper (Cu)     | [7440-50-8]  | 0,79    | % |
| CZ-SPL-302A | Chromium (Cr)   | [7440-47-3]  | 3,04    | % |
| CZ-SPL-302A | Nickel (Ni)     | [7440-02-0]  | 0,126   | % |
| CZ-SPL-302A | Aluminium (Al)  | [7429-90-5]  | 0,175   | % |
| CZ-SPL-302A | Molybdenum (Mo) | [7439-98-7]  | 0,758   | % |
| CZ-SPL-302A | Tungsten (W)    | [7440-33-7]  | 0,787   | % |

|             |                 |             |        |   |
|-------------|-----------------|-------------|--------|---|
| CZ-SPL-302A | Vanadium (V)    | [7440-62-2] | 0,422  | % |
| CZ-SPL-302A | Titanium (Ti)   | [7440-32-6] | 0,0111 | % |
| CZ-SPL-302A | Cobalt (Co)     | [7440-48-4] | 0,0966 | % |
| CZ-SPL-302A | Arsenic (As)    | [7440-38-2] | 0,0064 | % |
| CZ-SPL-302A | Tin (Sn)        | [7440-31-5] | 0,018  | % |
| CZ-SPL-302A | Boron (B)       | [7440-42-8] | 0,0074 | % |
| CZ-SPL-302A | Niobium (Nb)    | [7440-03-1] | 0,08   | % |
| CZ-SPL-302A | Antimony (Sb)   | [7440-36-0] | 0,035  | % |
| CZ-SPL-302A | Lead (Pb)       | [7439-92-1] | 0,035  | % |
| CZ-SPL-302A | Zirconium (Zr)  | [7440-67-7] | 0,0157 | % |
| CZ-SPL-302A | Zinc (Zn)       | [7440-66-6] | 0,0264 | % |
| CZ-SPL-302A | Nitrogen (N)    | [7727-37-9] | 0,026  | % |
| CZ-SPL-302A | Bismuth (Bi)    | [7440-69-9] | ~0,002 | % |
| CZ-SPL-302A | Cerium (Ce)     | [7440-45-1] | 0,0202 | % |
| CZ-SPL-302A | Calcium (Ca)    | [7440-70-2] | 0,0012 | % |
| CZ-SPL-302A | Tantalum (Ta)   | [7440-25-7] | 0,033  | % |
| CZ-SPL-302A | Lanthanum (La)  | [7439-91-0] | ~0,005 | % |
| CZ-SPL-302A | Neodymium (Nd)  | [7440-00-8] | ~0,007 | % |
| CZ-SPL-303A | Iron (Fe)       | [7439-89-6] | Base   |   |
| CZ-SPL-303A | Carbon (C)      | [7440-44-0] | 1,37   | % |
| CZ-SPL-303A | Manganese (Mn)  | [7439-96-5] | 1,45   | % |
| CZ-SPL-303A | Silicon (Si)    | [7440-21-3] | 1,22   | % |
| CZ-SPL-303A | Phosphorus (P)  | [7723-14-0] | 0,0122 | % |
| CZ-SPL-303A | Sulfur (S)      | [7704-34-9] | 0,0069 | % |
| CZ-SPL-303A | Copper (Cu)     | [7440-50-8] | 0,102  | % |
| CZ-SPL-303A | Chromium (Cr)   | [7440-47-3] | 0,225  | % |
| CZ-SPL-303A | Nickel (Ni)     | [7440-02-0] | 2,6    | % |
| CZ-SPL-303A | Aluminium (Al)  | [7429-90-5] | 0,277  | % |
| CZ-SPL-303A | Molybdenum (Mo) | [7439-98-7] | 0,0455 | % |
| CZ-SPL-303A | Tungsten (W)    | [7440-33-7] | 0,442  | % |
| CZ-SPL-303A | Vanadium (V)    | [7440-62-2] | 0,09   | % |
| CZ-SPL-303A | Titanium (Ti)   | [7440-32-6] | 0,0626 | % |
| CZ-SPL-303A | Cobalt (Co)     | [7440-48-4] | 0,0166 | % |
| CZ-SPL-303A | Arsenic (As)    | [7440-38-2] | 0,0037 | % |
| CZ-SPL-303A | Tin (Sn)        | [7440-31-5] | 0,0598 | % |
| CZ-SPL-303A | Boron (B)       | [7440-42-8] | 0,007  | % |
| CZ-SPL-303A | Niobium (Nb)    | [7440-03-1] | 0,0154 | % |
| CZ-SPL-303A | Antimony (Sb)   | [7440-36-0] | 0,0115 | % |

|             |                 |              |        |   |
|-------------|-----------------|--------------|--------|---|
| CZ-SPL-303A | Lead (Pb)       | [7439-92-1]  | 0,0054 | % |
| CZ-SPL-303A | Zirconium (Zr)  | [7440-67-7]  | 0,171  | % |
| CZ-SPL-303A | Zinc (Zn)       | [7440-66-6]  | 0,0135 | % |
| CZ-SPL-303A | Nitrogen (N)    | [7727-37-9]  | 0,0072 | % |
| CZ-SPL-303A | Bismuth (Bi)    | [7440-69-9]  | 0,0094 | % |
| CZ-SPL-303A | Cerium (Ce)     | [7440-45-1]  | 0,0126 | % |
| CZ-SPL-303A | Calcium (Ca)    | [7440-70-2]  | 0,0018 | % |
| CZ-SPL-303A | Magnesium (Mg)  | [7439-95-4]  | ~0,005 | % |
| CZ-SPL-303A | Tellurium (Te)  | [13494-80-9] | ~0,002 | % |
| CZ-SPL-304A | Iron (Fe)       | [7439-89-6]  | Base   |   |
| CZ-SPL-304A | Carbon (C)      | [7440-44-0]  | 0,369  | % |
| CZ-SPL-304A | Manganese (Mn)  | [7439-96-5]  | 0,121  | % |
| CZ-SPL-304A | Silicon (Si)    | [7440-21-3]  | 0,854  | % |
| CZ-SPL-304A | Phosphorus (P)  | [7723-14-0]  | 0,0274 | % |
| CZ-SPL-304A | Sulfur (S)      | [7704-34-9]  | 0,062  | % |
| CZ-SPL-304A | Copper (Cu)     | [7440-50-8]  | 0,066  | % |
| CZ-SPL-304A | Chromium (Cr)   | [7440-47-3]  | 0,434  | % |
| CZ-SPL-304A | Nickel (Ni)     | [7440-02-0]  | 5,04   | % |
| CZ-SPL-304A | Aluminium (Al)  | [7429-90-5]  | 0,0327 | % |
| CZ-SPL-304A | Molybdenum (Mo) | [7439-98-7]  | 0,131  | % |
| CZ-SPL-304A | Tungsten (W)    | [7440-33-7]  | 1,319  | % |
| CZ-SPL-304A | Vanadium (V)    | [7440-62-2]  | 0,17   | % |
| CZ-SPL-304A | Titanium (Ti)   | [7440-32-6]  | 0,175  | % |
| CZ-SPL-304A | Cobalt (Co)     | [7440-48-4]  | 0,034  | % |
| CZ-SPL-304A | Arsenic (As)    | [7440-38-2]  | 0,0194 | % |
| CZ-SPL-304A | Tin (Sn)        | [7440-31-5]  | 0,0302 | % |
| CZ-SPL-304A | Boron (B)       | [7440-42-8]  | 0,0041 | % |
| CZ-SPL-304A | Niobium (Nb)    | [7440-03-1]  | 0,0176 | % |
| CZ-SPL-304A | Antimony (Sb)   | [7440-36-0]  | 0,008  | % |
| CZ-SPL-304A | Lead (Pb)       | [7439-92-1]  | 0,033  | % |
| CZ-SPL-304A | Zirconium (Zr)  | [7440-67-7]  | 0,057  | % |
| CZ-SPL-304A | Nitrogen (N)    | [7727-37-9]  | 0,0081 | % |
| CZ-SPL-304A | Bismuth (Bi)    | [7440-69-9]  | ~0,002 | % |
| CZ-SPL-304A | Cerium (Ce)     | [7440-45-1]  | ~0,004 | % |
| CZ-SPL-304A | Germanium (Ge)  | [7440-56-4]  | ~0,014 | % |
| CZ-SPL-305A | Iron (Fe)       | [7439-89-6]  | Base   |   |
| CZ-SPL-305A | Carbon (C)      | [7440-44-0]  | 0,299  | % |
| CZ-SPL-305A | Manganese (Mn)  | [7439-96-5]  | 0,208  | % |

|             |                 |             |        |   |
|-------------|-----------------|-------------|--------|---|
| CZ-SPL-305A | Silicon (Si)    | [7440-21-3] | 0,188  | % |
| CZ-SPL-305A | Phosphorus (P)  | [7723-14-0] | 0,0073 | % |
| CZ-SPL-305A | Sulfur (S)      | [7704-34-9] | 0,0468 | % |
| CZ-SPL-305A | Copper (Cu)     | [7440-50-8] | 0,342  | % |
| CZ-SPL-305A | Chromium (Cr)   | [7440-47-3] | 1,31   | % |
| CZ-SPL-305A | Nickel (Ni)     | [7440-02-0] | 0,393  | % |
| CZ-SPL-305A | Aluminium (Al)  | [7429-90-5] | 0,0046 | % |
| CZ-SPL-305A | Molybdenum (Mo) | [7439-98-7] | 1,32   | % |
| CZ-SPL-305A | Tungsten (W)    | [7440-33-7] | 0,132  | % |
| CZ-SPL-305A | Vanadium (V)    | [7440-62-2] | 0,795  | % |
| CZ-SPL-305A | Titanium (Ti)   | [7440-32-6] | 0,0082 | % |
| CZ-SPL-305A | Cobalt (Co)     | [7440-48-4] | 0,159  | % |
| CZ-SPL-305A | Arsenic (As)    | [7440-38-2] | 0,031  | % |
| CZ-SPL-305A | Tin (Sn)        | [7440-31-5] | 0,0093 | % |
| CZ-SPL-305A | Boron (B)       | [7440-42-8] | 0,0048 | % |
| CZ-SPL-305A | Niobium (Nb)    | [7440-03-1] | 0,222  | % |
| CZ-SPL-305A | Antimony (Sb)   | [7440-36-0] | 0,015  | % |
| CZ-SPL-305A | Lead (Pb)       | [7439-92-1] | 0,0262 | % |
| CZ-SPL-305A | Zirconium (Zr)  | [7440-67-7] | 0,0059 | % |
| CZ-SPL-305A | Zinc (Zn)       | [7440-66-6] | 0,0031 | % |
| CZ-SPL-305A | Nitrogen (N)    | [7727-37-9] | 0,0104 | % |
| CZ-SPL-305A | Bismuth (Bi)    | [7440-69-9] | ~0,005 | % |
| CZ-SPL-305A | Cerium (Ce)     | [7440-45-1] | ~0,003 | % |
| CZ-SPL-305A | Tantalum (Ta)   | [7440-25-7] | ~0,01  | % |
| CZ-SPL-305A | Silver (Ag)     | [7440-22-4] | ~0,009 | % |
| CZ-SPL-306A | Iron (Fe)       | [7439-89-6] | Base   |   |
| CZ-SPL-306A | Carbon (C)      | [7440-44-0] | 0,759  | % |
| CZ-SPL-306A | Manganese (Mn)  | [7439-96-5] | 2,29   | % |
| CZ-SPL-306A | Silicon (Si)    | [7440-21-3] | 1,63   | % |
| CZ-SPL-306A | Phosphorus (P)  | [7723-14-0] | 0,0167 | % |
| CZ-SPL-306A | Sulfur (S)      | [7704-34-9] | 0,0083 | % |
| CZ-SPL-306A | Copper (Cu)     | [7440-50-8] | 0,551  | % |
| CZ-SPL-306A | Chromium (Cr)   | [7440-47-3] | 0,107  | % |
| CZ-SPL-306A | Nickel (Ni)     | [7440-02-0] | 1,355  | % |
| CZ-SPL-306A | Aluminium (Al)  | [7429-90-5] | 0,0178 | % |
| CZ-SPL-306A | Molybdenum (Mo) | [7439-98-7] | 0,283  | % |
| CZ-SPL-306A | Tungsten (W)    | [7440-33-7] | 0,0266 | % |
| CZ-SPL-306A | Vanadium (V)    | [7440-62-2] | 0,0559 | % |

|             |                 |             |        |   |
|-------------|-----------------|-------------|--------|---|
| CZ-SPL-306A | Titanium (Ti)   | [7440-32-6] | 0,0508 | % |
| CZ-SPL-306A | Cobalt (Co)     | [7440-48-4] | 0,0259 | % |
| CZ-SPL-306A | Arsenic (As)    | [7440-38-2] | 0,08   | % |
| CZ-SPL-306A | Tin (Sn)        | [7440-31-5] | 0,0074 | % |
| CZ-SPL-306A | Boron (B)       | [7440-42-8] | 0,0079 | % |
| CZ-SPL-306A | Niobium (Nb)    | [7440-03-1] | 0,0118 | % |
| CZ-SPL-306A | Antimony (Sb)   | [7440-36-0] | 0,0073 | % |
| CZ-SPL-306A | Lead (Pb)       | [7439-92-1] | 0,026  | % |
| CZ-SPL-306A | Zirconium (Zr)  | [7440-67-7] | 0,0093 | % |
| CZ-SPL-306A | Zinc (Zn)       | [7440-66-6] | 0,015  | % |
| CZ-SPL-306A | Nitrogen (N)    | [7727-37-9] | 0,0136 | % |
| CZ-SPL-306A | Bismuth (Bi)    | [7440-69-9] | 0,0033 | % |
| CZ-SPL-306A | Cerium (Ce)     | [7440-45-1] | ~0,004 | % |
| CZ-SPL-306A | Calcium (Ca)    | [7440-70-2] | 0,0012 | % |
| CZ-SPL-306A | Tantalum (Ta)   | [7440-25-7] | 0,029  | % |
| CZ-SPL-306A | Silver (Ag)     | [7440-22-4] | ~0,012 | % |
| CZ-SPL-306A | Lanthanum (La)  | [7439-91-0] | ~0,008 | % |
| CZ-SPL-306A | Selenium (Se)   | [7782-49-2] | ~0,008 | % |
| CZ-SPL-306A | Neodymium (Nd)  | [7440-00-8] | ~0,009 | % |
| CZ-SPL-307A | Iron (Fe)       | [7439-89-6] | Base   |   |
| CZ-SPL-307A | Carbon (C)      | [7440-44-0] | 0,563  | % |
| CZ-SPL-307A | Manganese (Mn)  | [7439-96-5] | 0,704  | % |
| CZ-SPL-307A | Silicon (Si)    | [7440-21-3] | 0,572  | % |
| CZ-SPL-307A | Phosphorus (P)  | [7723-14-0] | 0,0219 | % |
| CZ-SPL-307A | Sulfur (S)      | [7704-34-9] | 0,0055 | % |
| CZ-SPL-307A | Copper (Cu)     | [7440-50-8] | 0,243  | % |
| CZ-SPL-307A | Chromium (Cr)   | [7440-47-3] | 0,541  | % |
| CZ-SPL-307A | Nickel (Ni)     | [7440-02-0] | 0,545  | % |
| CZ-SPL-307A | Aluminium (Al)  | [7429-90-5] | 0,0906 | % |
| CZ-SPL-307A | Molybdenum (Mo) | [7439-98-7] | 0,096  | % |
| CZ-SPL-307A | Tungsten (W)    | [7440-33-7] | 0,0518 | % |
| CZ-SPL-307A | Vanadium (V)    | [7440-62-2] | 0,0377 | % |
| CZ-SPL-307A | Titanium (Ti)   | [7440-32-6] | 0,0297 | % |
| CZ-SPL-307A | Cobalt (Co)     | [7440-48-4] | 0,0353 | % |
| CZ-SPL-307A | Arsenic (As)    | [7440-38-2] | 0,0275 | % |
| CZ-SPL-307A | Tin (Sn)        | [7440-31-5] | 0,0027 | % |
| CZ-SPL-307A | Boron (B)       | [7440-42-8] | 0,0024 | % |
| CZ-SPL-307A | Niobium (Nb)    | [7440-03-1] | 0,0412 | % |

|             |                |             |        |   |
|-------------|----------------|-------------|--------|---|
| CZ-SPL-307A | Antimony (Sb)  | [7440-36-0] | 0,0067 | % |
| CZ-SPL-307A | Lead (Pb)      | [7439-92-1] | 0,0083 | % |
| CZ-SPL-307A | Zirconium (Zr) | [7440-67-7] | 0,0479 | % |
| CZ-SPL-307A | Zinc (Zn)      | [7440-66-6] | 0,0058 | % |
| CZ-SPL-307A | Nitrogen (N)   | [7727-37-9] | 0,0065 | % |
| CZ-SPL-307A | Bismuth (Bi)   | [7440-69-9] | ~0,002 | % |
| CZ-SPL-307A | Cerium (Ce)    | [7440-45-1] | 0,0062 | % |
| CZ-SPL-307A | Calcium (Ca)   | [7440-70-2] | 0,0005 | % |
| CZ-SPL-307A | Tantalum (Ta)  | [7440-25-7] | 0,007  | % |
| CZ-SPL-307A | Selenium (Se)  | [7782-49-2] | ~0,009 | % |
| CZ-SPL-307A | Magnesium (Mg) | [7439-95-4] | ~0,003 | % |
| CZ-SPL-307A | Germanium (Ge) | [7440-56-4] | ~0,005 | % |
| CZ-SPL-307A | Silver (Ag)    | [7440-22-4] | ~0,006 | % |