

Copper base / Silicon Bronze / Certified Reference Material/ Modified CDA 647 / UNS C64700, Disc 31 mm x 19 mm

Art. ID IARM-Cu647-18-G
Unit disc
Deliverydetails No Dangerous Good /not restricted

Description

Silicon Bronze, modified CDA647 (IARM-Cu647-18) type of alloy is typically used for applications such as brazing or welding rods, as well as welding electrodes and also for fasteners. It has moderate strength and is good for corrosion resistance.

| Text/Information | Analyte/Parameter | CAS number | Concentration/Value | Unit | Method | Source |
|------------------|-------------------|-------------|---------------------|------|--------|--------|
| Certified Value | Aluminium (Al) | [7429-90-5] | 0,0027 ± 0,0006 | % | | |
| Certified Value | Iron (Fe) | [7439-89-6] | 0,0056 ± 0,0009 | % | | |
| Certified Value | Magnesium (Mg) | [7439-95-4] | 0,0086 ± 0,001 | % | | |
| Certified Value | Manganese (Mn) | [7439-96-5] | 0,099 ± 0,009 | % | | |
| Certified Value | Nickel (Ni) | [7440-02-0] | 2,69 ± 0,08 | % | | |
| Certified Value | Silicon (Si) | [7440-21-3] | 0,7 ± 0,03 | % | | |
| Certified Value | Zinc (Zn) | [7440-66-6] | 0,005 ± 0,001 | % | | |
| Certified Value | Zirconium (Zr) | [7440-67-7] | 0,044 ± 0,002 | % | | |
| Indicative Value | Silver (Ag) | [7440-22-4] | <60 | ppm | | |
| Indicative Value | Arsenic (As) | [7440-38-2] | <50 | ppm | | |
| Indicative Value | Boron (B) | [7440-42-8] | ~30 | ppm | | |
| Indicative Value | Bismuth (Bi) | [7440-69-9] | <50 | ppm | | |
| Indicative Value | Carbon (C) | [7440-44-0] | ~17 | ppm | | |
| Indicative Value | Cadmium (Cd) | [7440-43-9] | ~3 | ppm | | |
| Indicative Value | Cobalt (Co) | [7440-48-4] | <30 | ppm | | |
| Indicative Value | Chromium (Cr) | [7440-47-3] | <50 | ppm | | |
| Indicative Value | Copper (Cu) | [7440-50-8] | ~96,5 | % | | |
| Indicative Value | Hydrogen (H) | [1333-74-0] | <10 | ppm | | |
| Indicative Value | Molybdenum (Mo) | [7439-98-7] | <50 | ppm | | |
| Indicative Value | Nitrogen (N) | [7727-37-9] | ~6 | ppm | | |
| Indicative Value | Niobium (Nb) | [7440-03-1] | ~12 | ppm | | |
| Indicative Value | Oxygen (O) | [7782-44-7] | ~8 | ppm | | |
| Indicative Value | Phosphorus (P) | [7723-14-0] | <200 | ppm | | |
| Indicative Value | Lead (Pb) | [7439-92-1] | <70 | ppm | | |
| Indicative Value | Sulfur (S) | [7704-34-9] | ~9 | ppm | | |
| Indicative Value | Antimony (Sb) | [7440-36-0] | <200 | ppm | | |
| Indicative Value | Selenium (Se) | [7782-49-2] | <100 | ppm | | |

| | | | | |
|------------------|---------------|-------------|------|-----|
| Indicative Value | Tin (Sn) | [7440-31-5] | <100 | ppm |
| Indicative Value | Titanium (Ti) | [7440-32-6] | <50 | ppm |
| Indicative Value | Vanadium (V) | [7440-62-2] | <10 | ppm |
| Indicative Value | Tungsten (W) | [7440-33-7] | <10 | ppm |