



Special Contract Rules for Copper Grade A

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Quality: BS EN 1978:2022 Copper Cathodes (Cathode grade designation Cu-CATH-1)

| Element | Composition, % maximum |
|--|------------------------|
| Cu | - |
| Ag | 0.0025 |
| As | 0.0005 1) |
| Bi | 0.00020 2) |
| Cd | - 1) |
| Co | - 3) |
| Cr | - 1) |
| Fe | 0.0010 3) |
| Mn | - 1) |
| Ni | - 3) |
| P | - 1) |
| Pb | 0.0005 |
| S | 0.0015 4) |
| Sb | 0.0004 1) |
| Se | 0.00020 2) |
| Si | - 3) |
| Sn | - 3) |
| Te | 0.00020 2) |
| Zn | - 3) |
| Sum of elements listed in this table other than Cu | 0.0065 |

1) (As + Cd + Cr + Mn + P + Sb) maximum 0.0015%

2) (Bi + Se + Te) maximum 0.0003%, of which (Se + Te) maximum 0.00030%

3) (Co + Fe + Ni + Si + Sn + Zn) maximum 0.0020%

4) The Sulphur content shall be determined on a cast sample



Quality: GB/T 467-2010 Copper Cathode (High-Purity Copper Cathode (Cu-CATH-1))

| Element Group | Impurity Element | Content, not more than | Total content of element group, not more than | |
|---|------------------|------------------------|---|---------|
| 1 | Se | 0.00020 | 0.00030 | 0.00030 |
| | Te | 0.00020 | | |
| | Bi | 0.00020 | | |
| 2 | Cr | - | 0.0015 | |
| | Mn | - | | |
| | Sb | 0.0004 | | |
| | Cd | - | | |
| | As | 0.0005 | | |
| | P | - | | |
| 3 | Pb | 0.0005 | 0.0005 | |
| 4 | S | 0.0015 | 0.0015 | |
| 5 | Sn | - | 0.0020 | |
| | Ni | - | | |
| | Fe | 0.0010 | | |
| | Si | - | | |
| | Zn | - | | |
| | Co | - | | |
| 6 | Ag | 0.0025 | 0.0025 | |
| Where the total content of the impurity elements listed | | 0.0065 | | |



Quality: ASTM B115-10 (2021) Standard Specification for Electrolytic Copper Cathode (Cathode Grade 1)

| Element | Composition, % maximum | Group Total, % maximum |
|-------------------------|------------------------|------------------------|
| Se | 0.0002 | 0.0003 |
| Te | 0.0002 | |
| Bi | 0.00010 | |
| Sb | 0.0004 | |
| Pb | 0.0005 | |
| As | 0.0005 | |
| Fe | 0.0010 | |
| Ni | 0.0010 | |
| Sn | 0.0005 | |
| S | 0.0015 | |
| Ag | 0.0025 | |
| Maximum allowable total | 0.0065 | |

