

Laboratory **Laboratories of Hindalco Industries Limited, (Unit : Birla Copper), P.O. Dahej, Dist. Bharuch, Gujarat**

Accreditation Standard **ISO/IEC 17025: 2005**

Discipline **Chemical Testing** **Issue Date** **30.04.2015**

Certificate Number **T-1017** **Valid Until** **29.04.2017**

Last Amended on **06.05.2015** **Page** **1 of 1**

| S.No. | Product / Material of Test | Specific Test Performed | Test Method Specification against which tests are performed | Range of Testing / Limits of Detection |
|-------------------------------|--------------------------------------|-------------------------|---|--|
| I. METALS & ALLOYS | | | | |
| 1. | Copper Cathode and Copper Rod | Selenium | BSEN 15079: 2007 | 1 ppm to 2 ppm |
| | | Tellurium | BSEN 15079: 2007 | 1 ppm to 2 ppm |
| | | Bismuth | BSEN 15079: 2007 | 1 ppm to 2 ppm |
| | | Antimony | BSEN 15079: 2007 | 2 ppm to 4 ppm |
| | | Lead | BSEN 15079: 2007 | 2 ppm to 5 ppm |
| | | Arsenic | BSEN 15079: 2007 | 2 ppm to 5 ppm |
| | | Iron | BSEN 15079: 2007 | 2 ppm to 10 ppm |
| | | Nickel | BSEN 15079: 2007 | 2 ppm to 10 ppm |
| | | Tin | BSEN 15079: 2007 | 2 ppm to 5 ppm |
| | | Silver | BSEN 15079: 2007 | 8 ppm to 12 ppm |
| | | Sulphur | BSEN 15079: 2007 | 5 ppm to 15 ppm |
| | | Oxygen | ASTM B-49: 2010 | 100 ppm to 650 ppm |
| | | Surface Oxide | ASTM B-4: 2010 | 50 Angstrom to 750 Angstrom |

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