|  |  |
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|  | **Pioneer Materials Inc.**  **3357 Candlewood Road, Torrance, CA 90505, USA**  **TEL: (714)721-5332/FAX: (310)539-0305** |

**CERTIFICATE OF COMPLIANCE AND ANALYSIS**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **CUSTOMER:**  **PO NO.:**  **QUANTITY:**  **PART NO.:** | **[Customer]**  **[PO]**  **1pc**  **N/A** | | | | **ASSAY NO.:**  **LOT NO.:**  **DATE of CofA:**  **DATE of ORDER:** | | **N/A**  **[Lot]**  **[COADate]**  **[OrderDate]** |
| **DESCRIPTION:** | | **99.99%**  **[Material] Target. [Size] thick** | | | | | |
| **CUSTOMER SPECIFICATION** | | | | **RESULTS** | | | |
| **Alloy Analysis** | | **Spec** | | **Actual** | | **Source** | |
| **Cu**  **In**  **Ga**  **Se** | | **22.8**  **20**  **7.0**  **50.2** | **Atm%**  **Atm%**  **Atm%**  **Atm%** | **See Below Table** | | **XRF** | |
|  | | | | | | | |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Dimensional Results** | **Spec** | **Actual** | **Source** | **Weight** | **Density** | **Resistivity** |
| **[Lot]** | **[Size]** | **[Dimension]** | **By caliper** | **[Weight]kg** | **[Density]g/cm3** | **[Resistance]Ω·cm** |

This is to certify that this product has been made in accordance with customer P.O. number and material specification listed above.

|  |  |
| --- | --- |
|  | **[COADate]** |
| Authorized Signature | Date |