**Thermocouple Quality Inspection Checklist**

Sensor Number: PA-L01-0X

Quality Inspection Date: dd/mm/yy Inspection By: <Name>

1. Physical Quality Inspection

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Physical Check Points** | **Expected** | **Actual** | **Image** |
| 1. | Height of water level | 11.4mm | \_\_.\_\_mm |  |
| 2. | Height of oil level | 1.8mm | \_\_.\_\_mm |
| **No.** | **Production Quality Check Points** | **Yes** | **No** |
|  | No presence of anomalies in glass capillaries | ✔ |  |
|  | No presence of visible impurities in the liquid | ✔ |  |
|  | Wires are screwed to the correct locations (red to negative and green to positive) | ✔ |  |
|  | Wires are not touching one another in the head plug | ✔ |  |
|  | The welded point is located at the centre of the water level | ✔ |  |

1. Test Quality Inspection

Machine Number: SAPV016A000X No. of Cycles:45

Date/Time: dd/mm/yy \_\_:\_\_XM

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Testing Check Points** | **Yes** | **No** | **Image** |
| 1. | High points of the graph are consistent | ✔ |  | 1st Run:    2nd Run: |
| 2. | High points of the graph are within acceptable range of the desired temperature | ✔ |  |
| 3. | Low points of the graph are consistent | ✔ |  |
| 4. | Low points of the graph are within acceptable range of desired temperature | ✔ |  |
| 5. | Temperature graph reading are consistent across multiple experiments | ✔ |  |
| **No.** | **Post-Test Quality Check Points** | **Yes** | **No** |
| 1. | No presence of anomalies in glass capillaries | ✔ |  |
| 2. | No presence of visible impurities in the liquid | ✔ |  |
| 3. | No changes in water level | ✔ |  |
| 4. | No changes in oil level | ✔ |  |

1. Consistency and Reproducibility Inspection

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **Check Points** | **Yes** | **No** |
| 1. | No visible physical changes to the thermocouple | ✔ |  |