

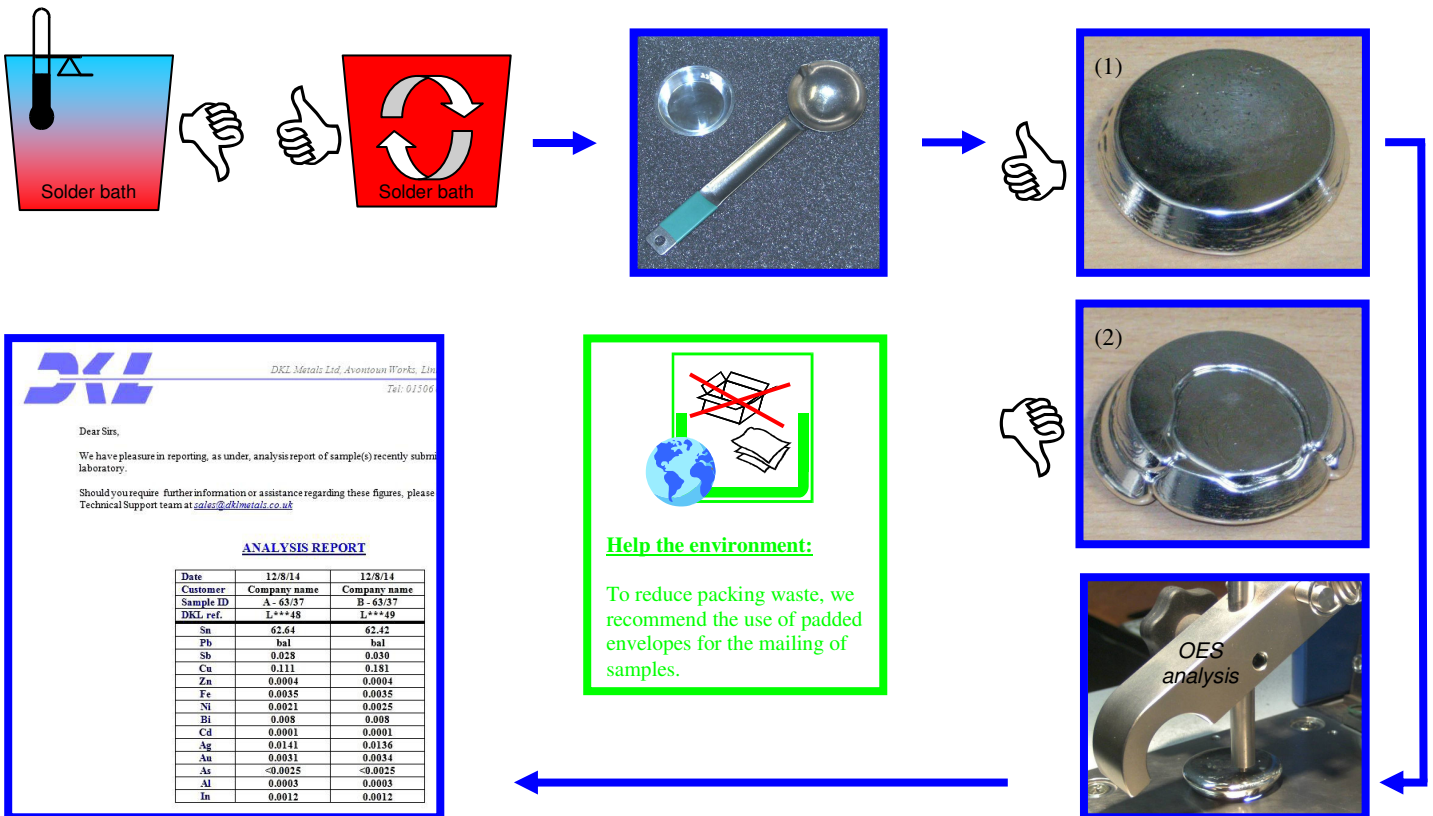
DKL Metals laboratory offers a bath analysis programme for our customers. This is particularly important with lead-free alloys as monitoring of copper and lead levels are critical to a smooth running controlled process. To enable us to process your samples quickly and efficiently we need your help in sample preparation.

Routine samples must be prepared with the DKL Metals sampling kit and these samples will be analysed free of charge. Any sample received that requires additional preparation will incur a handling/processing charge.

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The accuracy of any analysis is determined by the sample. If the sample is not a good representation of the material in the solder bath, the analysis figures will prove meaningless and could be misleading. To help assist you in your sampling, here are a few tips.

- Ensure the solder bath is at its normal operating temperature.
- It is essential that the bath contents are well mixed. Larger baths may require the wave running for 20 minutes to ensure adequate mixing.
- The sample should be taken with a warm, DRY ladle from the flowing wave (not off the surface) and be poured directly into a COLD mould. When inserting anything into molten metal, the wearing of suitable eye protection and protective clothing is recommended.
- Sit the mould on a flat, level surface and pour the metal into the mould in one continuous pouring action as a flat surface on the bottom is essential (1). Do NOT stop and start the filling process as this gives an unsatisfactory finish (2).



DKL Metals Ltd, Avonmouth Works, Ltd  
Tel: 01506

Dear Sirs,  
We have pleasure in reporting, as under, analysis report of sample(s) recently submitted to our laboratory.  
Should you require further information or assistance regarding these figures, please contact our Technical Support team at [sales@dklmetals.co.uk](mailto:sales@dklmetals.co.uk)

**ANALYSIS REPORT**

| Date      | 12/8/14      | 12/8/14      |
|-----------|--------------|--------------|
| Customer  | Company name | Company name |
| Sample ID | A - 6337     | B - 6337     |
| DKL ref.  | L***48       | L***49       |
| Sn        | 62.64        | 62.42        |
| Pb        | ba1          | ba1          |
| Sb        | 0.028        | 0.030        |
| Cu        | 0.111        | 0.181        |
| Zn        | 0.0004       | 0.0004       |
| Fe        | 0.0035       | 0.0035       |
| Ni        | 0.0021       | 0.0025       |
| Bi        | 0.008        | 0.008        |
| Cd        | 0.0001       | 0.0001       |
| Ag        | 0.0141       | 0.0136       |
| Au        | 0.0031       | 0.0034       |
| As        | <0.0025      | <0.0025      |
| Al        | 0.0003       | 0.0003       |
| In        | 0.0012       | 0.0012       |

**Help the environment:**  
To reduce packing waste, we recommend the use of padded envelopes for the mailing of samples.

| Please send your samples to the Laboratory at: | We require the following information on the request form / letter | We require the following information on the sample (marker pen / label) |
|------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------------|
| DKL Metals Ltd                                 | Customer name                                                     | Customer name                                                           |
| Bo'ness Road                                   | Date                                                              | Sample ID                                                               |
| Grangemouth                                    | Sample ID                                                         |                                                                         |
| Stirlingshire, FK3 9XF                         | Alloy                                                             |                                                                         |
| Scotland, U.K.                                 | e-mail address for the analysis report                            |                                                                         |



**Any questions?**

If you have any questions regarding your analyses, please get in touch.

Call us at +44 (0) 1506 847710 or e-mail the laboratory direct: [robertj@dklmetals.co.uk](mailto:robertj@dklmetals.co.uk)