



## Copper Anodes for Plating

Luvata produces high quality copper anodes as balls, slugs, minislugs, plates and profiles in a range of sizes. These high-purity anodes are available in phosphorous or oxygen-free copper. Our production process is both flexible and efficient, guaranteeing reliable delivery and quick turnaround.

The benefits of using Luvata anodes are:

- The high purity of the anodes means they can be used repeatedly with no loss of consistency
- Their unique surface shape ensures even dissolution
- They are not sensitive to passivation
- They tolerate higher chloride contents
- Fewer additives are needed
- The high purity levels and the uniform shape mean that less sludge is produced, and what is produced is less likely to build up



### About Luvata

Luvata is a world-leader in metal fabrication, component manufacturing and related engineering and design services. We are committed to partnering with our customers to help them increase their competitiveness. Our products and services enable our customers to improve operational efficiency, improve products and reduce tied-up capital. This focus on our customers' results, backed by our unfailing reliability, makes us a partner on which our customers base their future development.





## Phosphorous Copper Anodes

Luvata's Phosphorous Copper Anodes have high quality plating properties and are widely used for demanding plating Printed Circuit Boards (PCB). The oxygen-free melt in the Luvata casting process gives the anodes a phosphorous content of P 0.04 – 0.06% that remains consistent from bath to bath. Phosphorous Copper Anodes are used in Acid Copper Plating Baths.

| Balls          | Slugs              | Plates/<br>Dogbones | Ovals/<br>Hexagonals                              |
|----------------|--------------------|---------------------|---|
| dia            | dia                | Plates:             | Ovals:  |
| 15, 25, 28     | 8x20               | 100x10xlenght       | 51x76xlenght                                      |
| 40, 42, 45, 50 | 12x8, 12x10, 12x20 | 100x15xlenght       |   |
|                | 14x10, 14x20       | 152x19xlenght       | Hexagonals:                                       |
|                | 25x25, 25x30-40    | Dogbones:           | 39x78xlenght                                      |
|                |                    | 94x34xlenght        |   |
|                |                    |                     | all dimensions mm; ask for other shapes and sizes |



## Oxygen-Free Copper Anodes

Our Oxygen-Free Copper Anodes are made specifically for electroplating and melting purposes. They have a high purity level (99.99% minimum) and are free of grease. Because of their cast crystal structure and even particle size, these anodes are easily dissolved and melted, and their free-flowing material allows ease of handling.

| Balls             | Slugs              | Plates        | Ovals   |
|-------------------|--------------------|---------------|---|
| dia               | dia                | 80x15xlenght  | 48x65xlenght                                      |
| 15, 25, 40 and 50 | 8x15, 8x20         | 100x10xlenght |   |
|                   | 12x8, 12x10, 12x20 | 100x15xlenght |   |
|                   | 14x10, 14x20       | 152x19xlenght |   |
|                   | 25x25, 25x30-40    | 152x15xlenght |   |
|                   |                    | 200x10xlenght |   |
|                   |                    | 200x12xlenght |   |
|                   |                    |               | all dimensions mm; ask for other shapes and sizes |



## Packing types all anodes

| Balls and slugs:           |                       | Plates and profiles:        |
|----------------------------|-----------------------|-----------------------------|
| in 20kg carton boxes       |                       | in 500/1000kg bundles       |
| in 25kg carton boxes       |                       | in 500/1000 kg wooden cases |
| in 1000kg big bags (balls) | all packed on pallets |                             |