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|----------|------------|
| Date     | 2025.09.01 |
| Language | English    |
| SDS      | 950007     |



## SUMMARY

This bearing metal has been specially developed for a customer-specific application.  
Applicable as a bearing material or as a solder layer in flame and arc spraying.

| ALLOY                | WM89 |
|----------------------|------|
| <b>PROCESS</b>       |      |
| corrosion protection | 6    |
| Wear Protection      | 8    |

| INDUSTRY APPLICATION |   |
|----------------------|---|
| Soluble anode        | 1 |
| Insoluble anode      | 1 |

| PROCESS CAPABILITY           |   |
|------------------------------|---|
| Flame spraying               | 9 |
| Arc Spraying                 | 9 |
| Plain Bearing Process        | 9 |
| Capacitor contacting         | 9 |
| Electroplating               | 1 |
| Dissolution Behaviour        | 1 |
| Cast / Cast-in suspension    | 1 |
| Soldered suspension (copper) | 1 |

| Legend                                           |        |
|--------------------------------------------------|--------|
| <i>Especially made for this purpose</i>          | 9 - 10 |
| <i>Generally qualified for this purpose</i>      | 7 - 8  |
| <i>Generally usable, but not the best choice</i> | 5 - 6  |
| <i>Generally not usable for this purpose</i>     | 3 - 4  |
| <i>Wrong choice</i>                              | 1 - 2  |

| PROPERTIES             |              |
|------------------------|--------------|
| Manufacturing standard | SMS-WM89     |
| Alloy Code             | SMS-WM89     |
| Alloy composition      | SnSb7.5Cu3.5 |

| COMPOSITION |      |           |
|-------------|------|-----------|
| Tin         | [Sn] | Remainder |
| Antimony    | [Sb] | 7.5       |
| Copper      | [Cu] | 3.5       |
| Zinc        | [Zn] | max.0.10  |
| Silver      | [Ag] | max. 0.10 |
| Nickel      | [Ni] | max. 0.06 |
| Cadmium     | [Cd] | max. 0.03 |
| Lead        | [Pb] | max. 0.06 |
| Arsenic     | [As] | max. 0.10 |
| Bismuth     | [Bi] | max. 0.08 |
| Iron        | [Fe] | max 0.03  |
| Aluminum    | [Al] | max 0.10  |

| DELIVERY FORM* |        | *other dimensions on request |
|----------------|--------|------------------------------|
| Solid wire     | ∅ [mm] | 1.0 - 6.0                    |

Check material compatibility with every process change!

Read AN before use.

Read MSDS before use.

## Disclaimer:

This information is intended as advice to the best of our knowledge. The provided data is based on our own measurements, they do not provide any guaranteed properties nor are these delivery specifications. Due to the versatility of materials, applications and taking in consideration the industrial property rights of third parties, Balver Zinn Josef Jost GmbH & Co. KG cannot take any liability.