

# Magnesium Tooling Plate and Anode Datasheet

SGZ magnesium tooling plate, vibration testing plate and sacrificial anodes. Thickness range, properties and applications.



## Magnesium Tooling Plate

SGZ Magnesium Tooling Plate, model P003, is a thick polished flat plate for tooling that has to stay dimensionally stable. It is specified where a shop needs a plate that absorbs vibration better than aluminium, is lighter than steel or copper, and is non-magnetic.

|                            |                                                                              |
|----------------------------|------------------------------------------------------------------------------|
| <b>Product type</b>        | Magnesium tooling plate                                                      |
| <b>Model number</b>        | P003                                                                         |
| <b>Surface</b>             | Polished                                                                     |
| <b>Common thickness</b>    | 100 - 1000 mm, or as required                                                |
| <b>Tooling life</b>        | 5 - 7 times longer for tooling work                                          |
| <b>Service temperature</b> | 350 F to -30 F                                                               |
| <b>Magnetism</b>           | Non-magnetic                                                                 |
| <b>Applications</b>        | Vibration test equipment, jigs, fixtures, optical benches, inspection gauges |

## Vibration Testing Magnesium Plate

Vibration testing is the most common application of SGZ magnesium tooling plate. The plate is stable and hard enough to carry heavy weight vibration testing, and it is specified across metallurgy, moulding, food, chemical and construction work.

|                         |                                                    |
|-------------------------|----------------------------------------------------|
| <b>Product type</b>     | Vibration testing magnesium plate                  |
| <b>Base product</b>     | SGZ magnesium tooling plate, model P003            |
| <b>Surface</b>          | Polished                                           |
| <b>Common thickness</b> | 100 - 1000 mm, or as required                      |
| <b>Industries</b>       | Metallurgy, moulding, food, chemical, construction |

|                  |                                                  |
|------------------|--------------------------------------------------|
| <b>Magnetism</b> | Non-magnetic                                     |
| <b>Loading</b>   | Specified to bear heavy weight vibration testing |

## Magnesium Sacrificial Anode

SGZ magnesium sacrificial anodes are produced cast or extruded, in round or cube form, with holes or threads where the fixing calls for them. They protect steel in vessels, port and ocean structures, buried cables, gas and water systems, drainage lines, chemical plant, telecommunications, water boilers and heat exchangers.

|                             |                                                                                                                                                                              |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product type</b>         | Magnesium sacrificial anode                                                                                                                                                  |
| <b>Production method</b>    | Cast or extruded                                                                                                                                                             |
| <b>Anode type</b>           | Round, cube, with holes (optional), with thread (optional), or as requested                                                                                                  |
| <b>Packing</b>              | Wood case, or as requested                                                                                                                                                   |
| <b>Typical applications</b> | Vessels, ports, ocean projects, underground cables, gas and water supply systems, drainage lines, chemicals, telecommunications, water boilers, heat exchangers, evaporators |

## Export packing

|                     |                                                                   |
|---------------------|-------------------------------------------------------------------|
| <b>Packing type</b> | Inner carton with outer wood pallet or wood case                  |
| <b>Intended for</b> | Long-distance transportation                                      |
| <b>Labelling</b>    | SGZ label on the package                                          |
| <b>Alternative</b>  | New designed box packing                                          |
| <b>Applies to</b>   | Photoengraving plate, additives, developer, anodes, tooling plate |

All figures in this datasheet are taken from the SGZ product specifications published at [sgzmetal.com](http://sgzmetal.com). Where SGZ does not publish a value, none is stated. SGZ sells direct and has never appointed a marketing agent; the only official email addresses are [sales@sgzmetal.com](mailto:sales@sgzmetal.com) and [sgzmetal@hotmail.com](mailto:sgzmetal@hotmail.com).