

# Photoengraving Magnesium Plate Datasheet

SGZ coated and highly polished magnesium plate. Stock sizes, thickness ranges, surface finishes and matched etching additives.



## Coated Magnesium Plate for Engraving and Etching

SGZ Coated Magnesium Plate is a photoengraving magnesium plate supplied with a blue photoresist front and a green anti-acid painted back. It is lighter than zinc and etches faster, which is why high-volume etching houses move to magnesium for banner, wall-calendar, printing, stamping, embossing and coining plate.

|                            |                                                            |
|----------------------------|------------------------------------------------------------|
| <b>Product type</b>        | Coated photoengraving magnesium plate                      |
| <b>Length x width</b>      | 500 x 1000 mm, 610 x 457 mm, 610 x 914 mm, or as requested |
| <b>Thickness</b>           | 1.0 - 10 mm                                                |
| <b>Front side</b>          | Blue photoresist (hydro) coating                           |
| <b>Back side</b>           | Green anti-acid painting                                   |
| <b>Matched additive</b>    | X-Flex (E004) or Rev-Flex (E003)                           |
| <b>Relative etch speed</b> | Faster than zinc plate                                     |
| <b>Packing</b>             | Inner carton with outer wood pallet or wood case           |

## Highly Polished Magnesium Plate for Engraving and Etching

SGZ Highly Polished Magnesium Plate is the uncoated version of the SGZ photoengraving magnesium plate, with a smooth, shiny, highly polished face. It runs to 2000 mm long and 1500 mm wide from 0.5 mm thick, which makes it the plate to specify when the format is larger than a standard coated sheet.

|                       |                                          |
|-----------------------|------------------------------------------|
| <b>Product type</b>   | Uncoated highly polished magnesium plate |
| <b>Maximum length</b> | 2000 mm                                  |
| <b>Maximum width</b>  | 1500 mm                                  |

|                            |                                                          |
|----------------------------|----------------------------------------------------------|
| <b>Minimum thickness</b>   | 0.5 mm                                                   |
| <b>Surface</b>             | Highly polished, smooth and shiny                        |
| <b>Thickness deviation</b> | Controlled across the sheet                              |
| <b>Suitable for</b>        | CNC engraving, and etching after in-house resist coating |
| <b>Packing</b>             | Inner carton with outer wood pallet or wood case         |

SGZ notes that magnesium plate with low manganese content gives better etching results.

## Matched consumables

|                            |                                                                          |
|----------------------------|--------------------------------------------------------------------------|
| <b>Magnesium additive</b>  | X-Flex (Fuji Hunt, E004) or Rev-Flex (MEL, E003), 5 gal / 20 kg per drum |
| <b>Etching machine</b>     | BS powderless etching machine, ten bath sizes 20-200 L                   |
| <b>Relative etch speed</b> | Faster than zinc plate                                                   |
| <b>Packing</b>             | Inner carton with outer wood pallet or wood case, labelled SGZ           |

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).