

Photoengraving Zinc Plate Datasheet

SGZ coated and polished zinc plate for chemical etching and CNC engraving. Chemical composition, stock sizes, thickness ranges and back-side finishes.



Coated Zinc Plate for Engraving and Etching

SGZ Coated Zinc Plate is a rolled zinc photoengraving plate that arrives with the blue photoresist already applied, so an etching house can expose it the day it lands. It is made for banner, wall-calendar, printing, stamping, embossing and coining work, and it is the plate SGZ built its patented coating process around.

Product type	Coated photoengraving zinc plate
Length x width	1000 x 500 mm, 1000 x 510 mm, or as requested
Thickness	0.8 - 3.0 mm
Front side	Blue photoresist coating
Back side	Anti-acid painting (orange or golden yellow) or pasted red film
Matched additive	Velv-Etch or SGZ Zinc Etching Additive Oil
Matched developer	KY161 Positive Plate Developer
Packing	Inner carton with outer wood pallet or wood case

Chemical composition

Element	Content
Aluminium (Al)	0.02 - 0.10%
Magnesium (Mg)	0.05 - 0.15%
Lead (Pb)	max 0.005%
Cadmium (Cd)	max 0.005%
Iron (Fe)	max 0.006%
Copper (Cu)	max 0.001%
Zinc (Zn)	Balance

Polished Zinc Plate for Engraving and Etching

SGZ Polished Zinc Plate is the uncoated, non-sensitized version of the SGZ photoengraving zinc plate. Plate from 0.8 to 3.0 mm is supplied polished, which suits CNC engraving directly, and shops that coat their own photoresist can sensitize it and etch it chemically.

Product type	Uncoated polished photoengraving zinc plate
Purity	99.95%
Length x width	1000 x 500 mm, 1000 x 510 mm, or as requested
Thickness	0.8 - 7.0 mm
Front side	Polished from 0.8 - 3.0 mm; non-polished from 3.5 - 7.0 mm
Back side	Anti-acid painting (orange or golden yellow) or pasted red film
Suitable for	CNC engraving, or chemical etching after in-house resist coating
Packing	Inner carton with outer wood pallet or wood case

Chemical composition

Element	Content
Aluminium (Al)	0.02 - 0.10%
Magnesium (Mg)	0.05 - 0.15%
Lead (Pb)	max 0.005%
Cadmium (Cd)	max 0.005%
Iron (Fe)	max 0.006%
Copper (Cu)	max 0.001%
Zinc (Zn)	Balance

Matched consumables

Developer	KY161 Positive Plate Developer, powder 500 g/bag or 5 L liquid
Zinc additive	Velv-Etch (Fuji, E002) or SGZ Zinc Etching Additive Oil, 20 kg per drum
Etching machine	BS powderless etching machine, ten bath sizes 20-200 L
Packing	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. 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 and sgzmetal@hotmail.com.