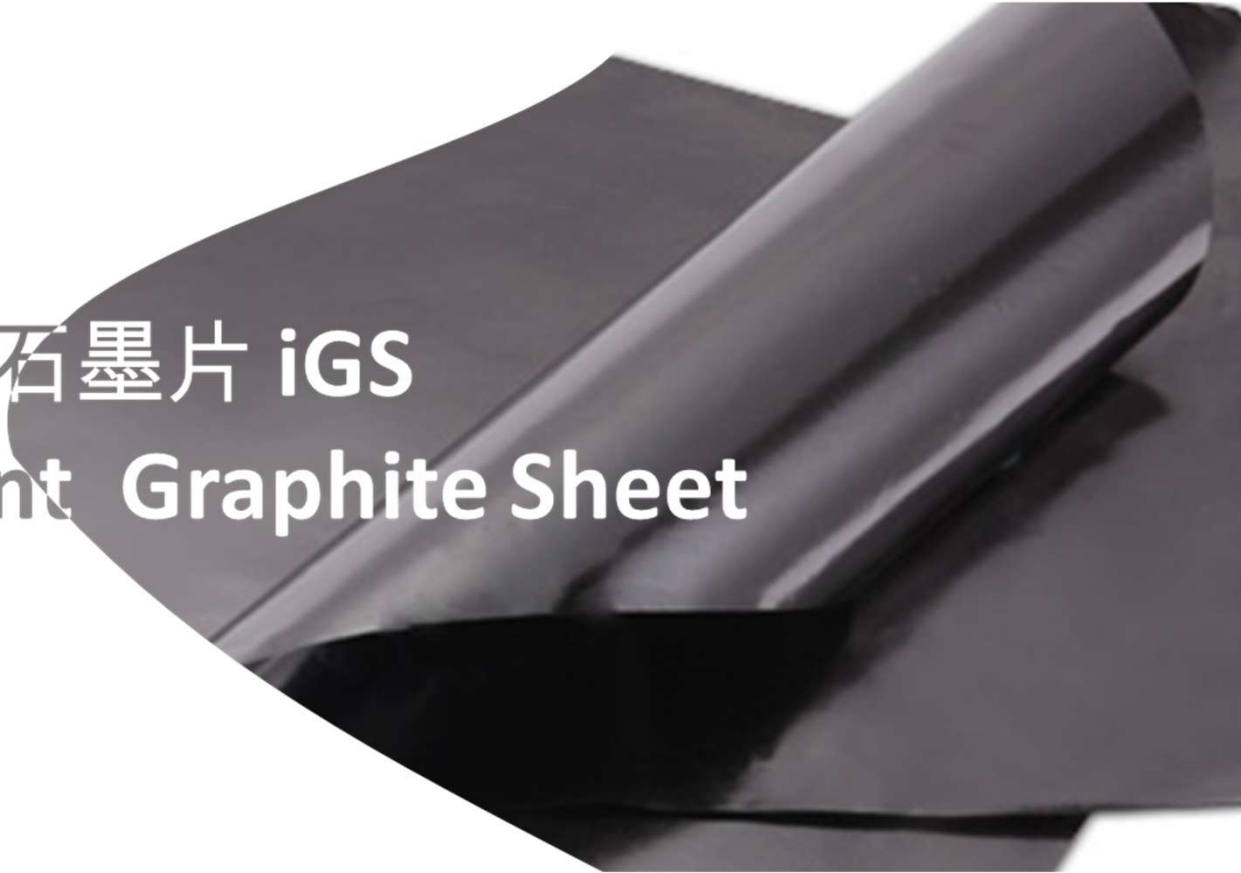




# 高導熱人工石墨片 iGS Intelligent Graphite Sheet

CeTech Co., Ltd.



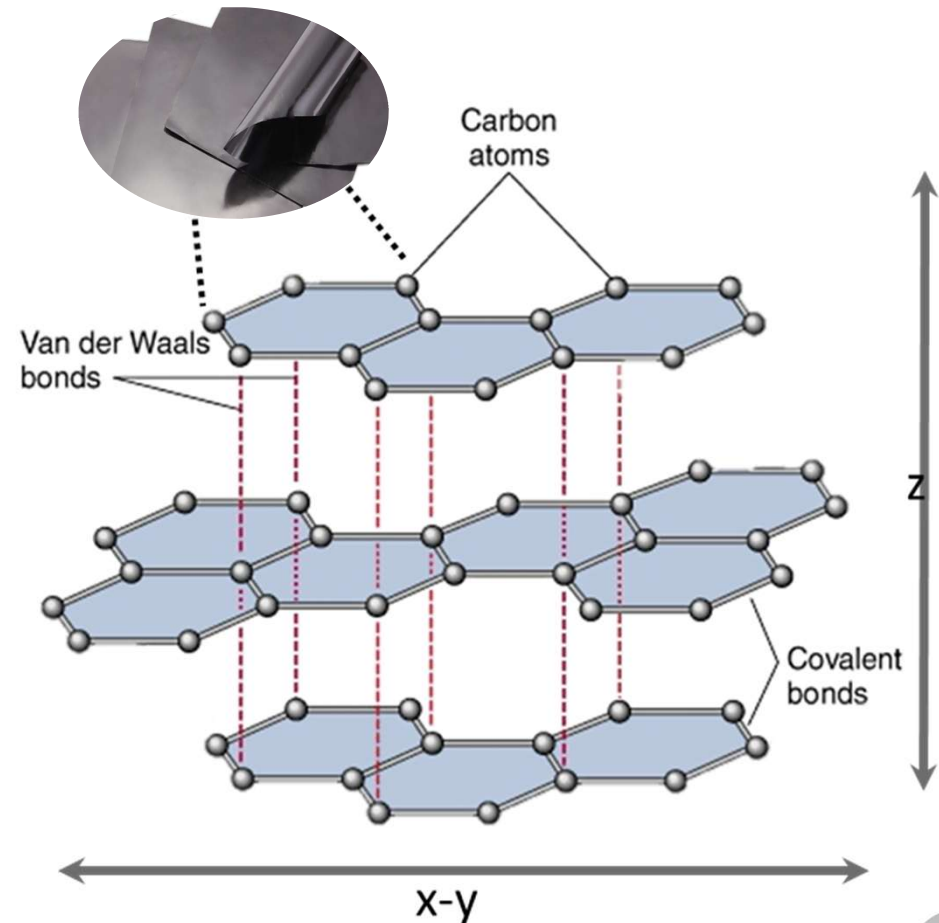


# iGS Specifications

| Item                                   | Specification |
|--|---------------|
| Thermal Conductivity<br>x-y (z) (w/mk) | 1,500 (15)    |
| Thickness (mm)                         | 0.025         |
| Electrical conductivity<br>(S/cm)      | 20,000        |
| Bending test* (cycles)                 | 20000         |
| Heat Resistance (°C)                   | 400           |

\* All data are the average values that do not represent specifications and tolerances

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# iGS Specifications

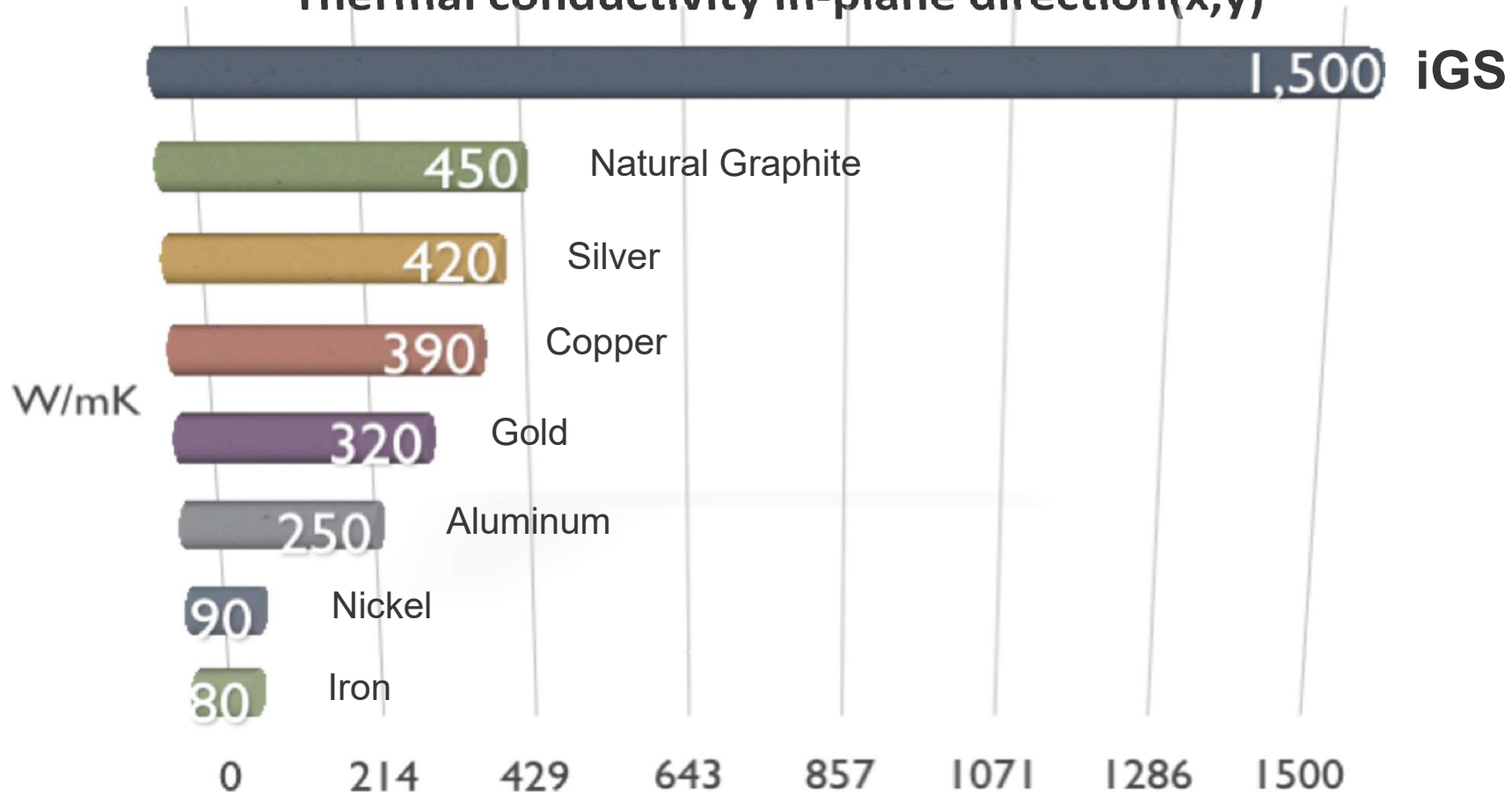
| Properties<br>產品物性            | Unit<br>單位         | iGS<br>人工合成石墨片     |           |
|-------------------------------|--------------------|--------------------|-----------|
|                               |                    | iGS025             | iGS040    |
| 厚度                            | mm                 | 0.025              | 0.04      |
| 導熱係數(x, y)<br>Angstrom Method | W/mk               | 1500               | 1250      |
| 導熱係數(z) Laser Flash           | W/mk               | 10                 | 10        |
| 熱擴散Angstrom Method            | cm <sup>2</sup> /s | 7.5                | 7.5       |
| 密度Archimedes Law              | g/cm <sup>3</sup>  | 2.1                | 1.8       |
| 比熱DSC                         | J/g K              | 0.94               | 0.94      |
| 拉伸強度(x, y) ASTM D882          | Mpa                | 30                 | 15        |
| 彎曲測試MIT(R5/180°)              | Frequency          | >10000             | >10000    |
| 電導率JIS K7194                  | S/cm               | >13000             | >13000    |
| 溫度條件Thermometer               | °C                 | -40 ~ 400          | -40 ~ 400 |
| 尺寸Sheet Size                  | mm                 | 220X220<br>220X260 | 220X260   |

\* All data are the average values that do not represent specifications and tolerances



# iGS Thermal Conductivity

Thermal conductivity in-plane direction(x,y)





# iGS Features



1

## Heat Management

Excellent thermal conductivity enables higher heat flow and higher computing speed.

2

## 3D design

Flexible as paper and can be bent in a three-dimensional design.

3

## Chemical Stability

Not easy to decompose in an extreme environment.

4

## Light Weight

Only 1/4 of copper

5

## Thermal Stability

iGS is very stable up to 400°C.

6

## Heat shielding

With a lower thermal conductivity in z-direction, iGS is able to keep hot spot on one side and maintain its x-y-direction conductivity at the same time.

## Applications

Smart Phone

Tablet

Ultrabook

LED TV

Pico projector

# | CeTech Co., Ltd.

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