

# SHANDONG TAIRAN IMPORT AND EXPORT CO.,LTD

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## Graphite Plate



Introduction: graphite plate is a conductive heat insulation material with high purity, high density and high strength and good anti pollution performance. It can be made into refractory products, wear-resistant material products, sealing material products and corrosion-resistant material products. It does not produce toxic gas. It is an environment-friendly and high-temperature resistant material.

1.Product Description: graphite plate is produced by selecting graphite raw materials, adding mailing composites with strong acid resistance, high pressure forming, vacuum impregnation, high temperature heat treatment and finishing. Graphite plate products have special and superior performance and a wide range of uses. It can be made into a variety of products for the fields of high temperature, corrosion resistance and wear resistance.

### 2. Characteristics of graphite plate

- 1) High purity, high density, high mechanical strength and strong chemical stability
- 2) The surface can be treated with oxidation resistance and has a long service life
- 3) High temperature resistance, corrosion resistance, acid and alkali resistance
- 4) Excellent thermal shock resistance, electrical conductivity and thermal conductivity
- 5) Good wear resistance and strong lubrication

### 3. Application of graphite plate

- 1) In the metallurgical industry, it is used to make crucibles and can also be used as lining to protect metallurgical furnaces
- 2) In addition to heat conduction and heat resistance, graphite plate also has good conductivity, so it is often used to manufacture electrodes, carbon rods, carbon tubes, etc
- 3) In architecture, it is used in exterior wall insulation system because it is temperature resistant and flame retardant
- 4) Graphite plate has corrosion resistance, low permeability and good chemical stability, so it is often used in the manufacture of filters and heaters.

### 4,Technical index of graphite plate

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| ITEM                                                                  | TRR-1 | TRR-2    | TRR-3   |
|-----------------------------------------------------------------------|-------|----------|---------|
| Maximum particle<br>mm                                                | 0.8   | ≤325mesh | -       |
| Density<br>g/cm <sup>3</sup>                                          | ≥1.72 | ≥1.78    | ≥1.80   |
| Resistivity<br>μΩ•m                                                   | ≤9.0  | ≤14      | ≤15     |
| Flexural strength<br>Mpa                                              | ≥14.5 | ≥40      | ≥40     |
| Compressive strength<br>Mpa                                           | ≥32.0 | ≥60      | ≥85     |
| Coefficient of thermal expansion<br>20-100°C     10 <sup>-6</sup> /°C | ≤2.8  | -        | 4.0-5.2 |
| Ash     %                                                             | ≤0.2  | ≤0.1     | ≤0.03   |

**Do you want to find a professional supplier of Graphite plate?**

**Do you want to find a stable and credible supplier?**

**Then let's contact with Tairan company**

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