



Property Data

Typical Properties

Table with 11 columns: Grade, Bulk Density, Hardness, Electrical Resistivity, Flexural Strength, Compressive Strength, Tensile Strength, Young's Modulus, Coefficient of Thermal Expansion, Thermal Conductivity, Standard Size. Rows include grades IG-11 through HPG-83.

* The figures above are typical values, and are not guaranteed.
* The measurement temperature range for the coefficient of thermal expansion is 350 to 450°C.
* Unit conversion: μΩ·m=μΩ·cm × 0.01 MPa=kgf/cm² × 0.098 GPa=kgf/mm² × 0.0098 W/(m·K)=kcal/h·m·°C × 1.16
* There are other product sizes in addition to those described above. Contact Toyo Tanso for details.

Impurity Analysis Example

Unit: mass ppm

Table with 5 columns: Element, Content (Ultra High Purity Graphite, High Purity Graphite, Regular Graphite), Measurement Method. Rows list elements Li, B, Na, Mg, Al, Si, K, Ca, Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, Pb.

* The figures above are examples of actual measurement, and are not guaranteed.
* ICP-MS: Inductively Coupled Plasma Mass Spectrometer, FL-AAS: Flameless Atomic Absorption Spectrometer, UV: Absorption Spectrophotometer.
* The impurity content of regular graphite is approximately 400 mass ppm; however, a higher purity is required for applications such as semi-conducting industries. At Toyo Tanso, we can use a high temperature halogen treatment to purify the graphite to the mass ppm levels requested by our customers.