Applications of Tungsten Sheet

Application

• X-ray inspection device for testing soldered joint

• X-ray inspection device for medical use

• Radiation shielding material and radiation-protective equipment for nuclear facilities

• Shielding material for radiation-protective gears for general use (such as an apron for X-ray operator)

• Consumer-use products such as raw material for vibration suppression, weight, acoustic (audio) isolation, etc. Because of characteristics of enabling 3-dimensional forming

• γ-ray shielding material for nuclear reactor piping, as a substitute for lead fiber mat

Features of Tungsten Sheet

* Radiation shielding effect equivalent to that of lead (For example, tungsten sheet of 1.2mm thickness has the same radiation shielding effect as that of lead plate of 1.3mm thickness: 1.3mm lead equivalent.)

* Price is less than half that of tungsten alloy having the same radiation shielding effect.

*Machinability: Easier to machine than lead, that is, the sheet can be cut or holed with home-use scissors, formed into shape having any curved surface; softer than lead, retractable, foldable, and durable to repeated bending.

* Easy to handle (No risk of pollution by lead)

* Excellent thermal plasticity, possible to form into shape having cylindrical or complicated curved surface