

Tungsten Alloy Mobile Radiation Shielding

What Is Tungsten Alloy Mobile Radiation Shielding?

Tungsten alloy mobile radiation shielding is designed for managing large quantities of high-energy radionuclide. A convenient lever allows quick adjustment of window to optimal angle for any user and procedures. A special plate with a hex-shaped recess is mounted on the base to facilitate one-handed loading and unloading of dose pigs incorporating hex-shaped bottoms.

What Is Mobile Radiation?

Mobile radiation is energy travelling through space in the form of waves or particles. Mobile radiation occurs naturally and has always been around, we've evolved with mobile radiation and we're bombarded with it in one form or another every day of our lives - from the earth, from space and even within our own bodies. Some experts suggest a little mobile radiation is a good thing and we all know of its uses in medical science to combat and diagnose some illnesses. Nowadays, as almost everyone has a mobile phone, mobile radiation becomes a notable problem. Mobile radiation is present in mobiles because they use radio frequency (RF) waves to make and receive calls.



The doses are considered very small as the emissions are low power (short range). Nevertheless, there are ways in which you can reduce exposure to these waves. Experts are currently working on the mobile radiation issue and tungsten alloy is very promising material in this field.

Why Choose Tungsten Alloy Mobile Radiation Shielding? With high density and small volume, tungsten alloy material is now widely used for making tungsten radioactive shielding to protect body from radiation. Tungsten radioactive shielding can provide a wide field excellent body protection. Two models are offered with varying sized tungsten alloy products. As we know, tungsten alloy radiation shielding is a durable, shatter resistant protection and provides an optically clear view. The most important thing is that this kind of material is quite environment-friendly. Tungsten alloy mobile shielding frames are constructed of durable tungsten. The product will maintain appearance for many years. Shields are easily mobile and locked into position.

Why Use Tungsten Alloy Mobile Radiation Shielding? Compared to traditional radiation shielding materials such as lead and boron carbide, tungsten alloy mobile shielding provide excellent density with small capacity. At the same weights high density alloy can provide the same energy absorption as lead using 1/3 less material. When the weight is certain, more density, and the thickness would be thinner. Tungsten alloy material could be made with thinner thickness but high absorption of

radiation in high density. That is why tungsten radioactive shielding is been more and more widely used. During design of tungsten alloy mobile shielding, mobile radiation is calculated according to requirements of shield to abate the multiple shielding materials' thickness.

Formula: $K = e^{0.693 d / 1/2}$

K: Shield weakened multiple

1/2: The shielding material of the half-value layer values

d: Shielding thickness, with the half-value layer thickness of their units, you need to half-value layer thickness of the quality of translation into the thickness of the material, divided by the density of the material can be obtained.