Tungsten Radiation Protective Tank

What is Tungsten Radiation Protective Tank?

Because tungsten for X-ray attenuation ability is used for all kinds of radioactive source shielding components or container of a kind of ideal material. In addition, tungsten is high density and environmental friendly. Tungsten is usually used to produce into tungsten radiation protective tank for industry and medical applications. The Applications of Tungsten Radiation Protective Tank Tungsten radiation protective tank is used as medical tungsten radiation shielding for medical radiation shielding wall. Tungsten can be produced as needle radiation shielding for medical radioactive liquid shielding. Tungsten radiation protective tank can be used as cans, boxes and other containers used to store radioactive matter, collimator, for medical linear accelerator and nuclear technology applications in tungsten series test container system collimator, Co60 radiation shielding. Tungsten radiation protective tank can be used widely in industry, such as the radiation shielding for radiation detectors, and nuclear industry radiation protection. Tungsten radiation protective tank for shielding X-ray and gamma radiation can greatly enhance both the material properties and the shielding efficiency.

The Advantages of Tungsten Radiation Protective Tank

Tungsten, which is a hard and rare metal, often exists in the form of chemical compound, serves as an efficient lead replacement material. Tungsten has high density and hardness, in fact almost 60 percent higher than lead, which are desirable characteristics for radiation shielding applications. They can be used to mitigate X-ray and gamma rays. Other benefits of tungsten-based materials include their high temperature resistance and environmental friendly. During design of shielding, tungsten material , which is mixed with Ni, Fe, or Cu, radiation shielding is calculated according to requirements of shield to abate the multiple shielding materials' thickness.

Formula: K = e0.693 d / 1/2
K: Shield weakened multiple
1/2: The tungsten alloy radiation shielding material of the half-value layer values