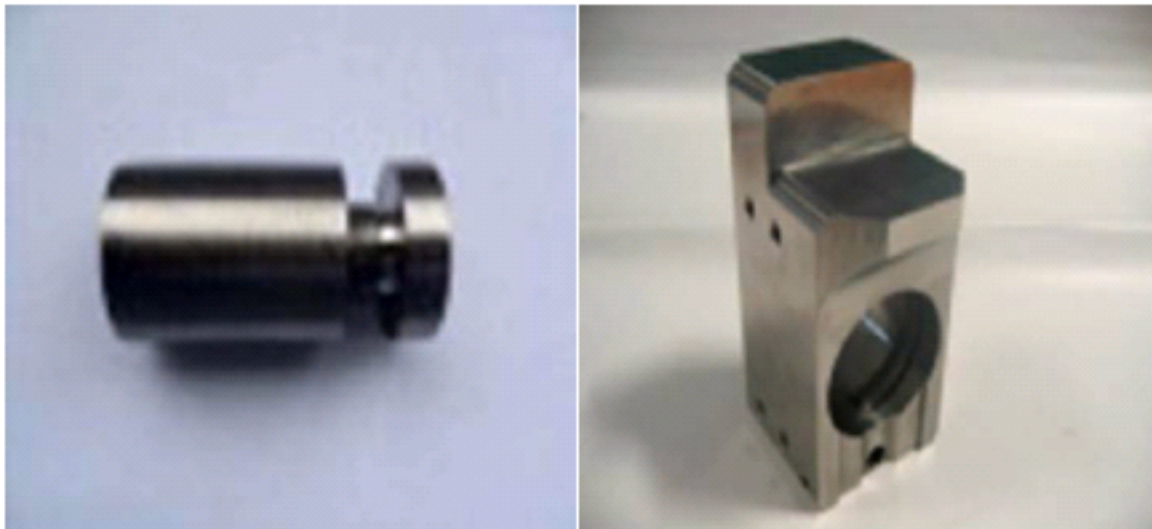


## Tungsten Alloy Radiation Cap

Tungsten Alloy Radiation Cap As medical science developing so rapid, there is more and more radiation in our life, which has become a new trouble, such as X-ray radiation, gamma radiation (energetic electromagnetic radiation), radiation of alpha particles (helium atoms) beta particles (electrons) and cosmic radiation, etc. Tungsten alloy radiation cap protect us from the radiation. Tungsten alloy radiation shielding is better than shielding made by other materials.

Tungsten alloy radiation shielding is ideal product against X rays and gamma radiation. The very high density of tungsten alloy radiation shielding allows a reduction in the physical size of shielding components, without compromising their rigidity or the effectiveness of the tungsten alloy radiation shielding characteristics. Tungsten alloy radiation shielding offered by us is qualified, we can provide tungsten alloy radiation cap as your requirements.

### Followings are tungsten alloy radiation shieldings



### Why Use Tungsten Alloy Radiation Cap?

Compared to traditional radiation shielding materials such as lead and boron carbide, tungsten alloy radiation cap 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, more denser, and the thickness would be thinner. Tungsten alloy radiation shielding material could be made with thinner thickness but high absorption of radiation in high density. That is why tungsten alloy material is suitable for radiation shielding. Tungsten alloy radiation shielding is better than lead materials for it is non-toxic. During design of tungsten alloy radiation shielding, tungsten alloy radiation cap is calculated according to requirements of shield to abate the multiple shielding materials' thickness.

Formula:  $K = e^{0.693 d / \lambda}$

K: Shield weakened multiple

$\lambda$ : 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.

Specification of tungsten alloy radiation cap  
Nuclear testing equipment  
Nuclear power plant shielding  
Radiation shielding barrel  
Isotope production, transport, and containment  
Personal protection equipment for emergency responders  
Large container inspection devices  
Oncology Isotopic and accelerator based platforms  
Pipe-line inspection Gamma  
Defense for nuclear submarines

