

## **Medical Applications of Tungsten Alloy**

Heavy metal alloys are pseudo-alloys of tungsten with a nickel-iron or nickel-copper matrix. They are produced by powder metal and sintering processes.

Tungsten's hardness and high density make it ideal for the manufacture of heavy metal alloys that are critical in the field of X-ray generation and radiation shielding. Generally, the absorption of X-rays and gamma radiation is in direct proportion to the density of the shielding material. tungsten alloys provide extremely efficient radiation shielding and protection.

The absorption of x-ray and gamma radiation is in direct proportion to the density of the shielding material. Tungsten High Density Composites are more than 1.5 times as effective as lead and provide extremely efficient protection, particularly where space is limited.

## **Medical Products**

X-ray anodes, collimator or anti-scatter plates, radiation shielding, radioactive source containers, and syringe covers for radioactive isotope injection and radiopaque markers

