

CRITICAL RAW MATERIALS IN MEDICAL DEVICES

Beryllium

Beryllium is critical to the operation of medical x-ray equipment due to its unique **transparent** properties towards x-rays that allow for high-definition results. Beryllium windows for passing the x-rays are indispensable for medical radiography, including CT scanning and mammography.



Tungsten

Tungsten's high **thermal connectivity**, high atomic number, and high **melting point** makes it an essential material for x-ray tubes.

Niobium, Titanium

The **superconducting** property of niobium-titanium alloys coated onto copper strands make for powerful electromagnets, which are the main component of an MRI machine