

AXF-5Q10W Graphite

For internal medical applications

Entegris graphite materials have been a mainstay in the implantable medical device market for over 40 years. The unique tungsten blended material combines the quality of our high-strength premium graphite with the added benefit of being radiopaque.

This life sciences grade, specially blended AXF-5Q10W graphite is precision machinable, visible under X-ray, and compatible with the human body. It is ideal for pyrocarbon-coated substances used by replacement joint and mechanical heart valve manufacturers around the world.

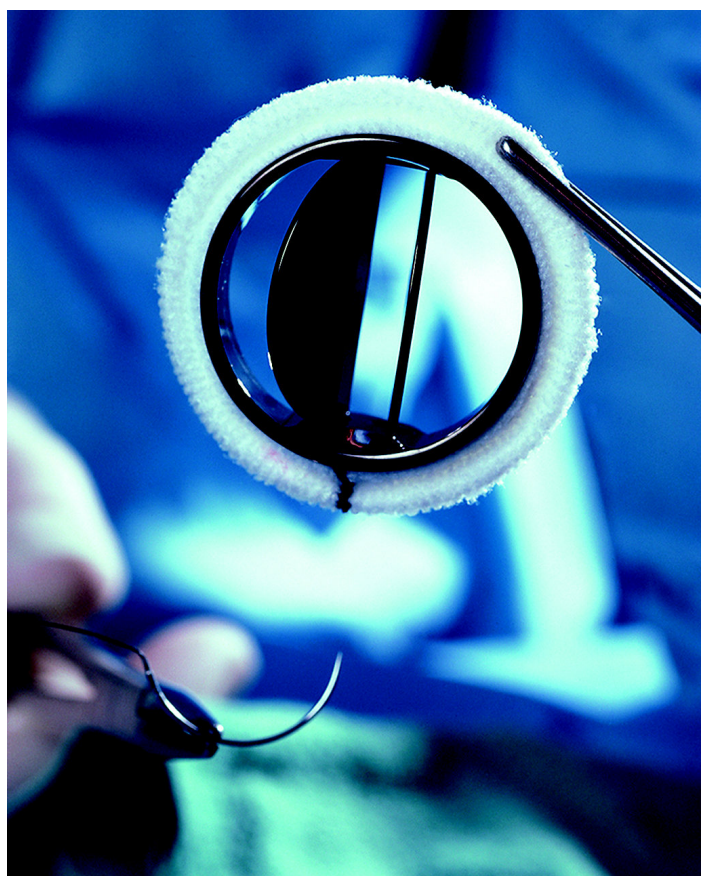
APPLICATIONS

Ideal for implantable medical devices including:

- Mechanical heart valves
- Finger joints
- Elbow joints

FEATURES & BENEFITS

Uniquely blended tungsten and premium graphite material	Provides long lasting strength and durability in high wear internal medical applications
Radiopaque properties	Visible under X-ray
Consistent particle size and microstructure	Easily machined into precision parts
Material meets stringent requirements for biomedical applications	Is compatible with human tissues and bodily fluids



High strength premium graphite is visible under X-ray

SPECIFICATIONS

Particle size	5 μm (200 μin)
Apparent density	2.1 g/cm^3 (0.0759 lb/in^3)
Compressive strength	145 N/mm^2 (20,000 psi)
Flexural strength	68 N/mm^2 (10,000 psi)
Hardness	72 Shore
Electrical resistivity	1550 $\mu\Omega\text{-cm}$ (610 $\mu\Omega\text{-in}$)
Coefficient of thermal expansion	7.7 $\mu\text{m}/\text{m}^\circ\text{C}$ (4.3 $\mu\text{in}/\text{in}^\circ\text{F}$)
Thermal conductivity (estimated)	150 $\text{W}/\text{m-K}$ (90 $\text{BTU-ft}/\text{hr}/\text{ft}^2\text{-}^\circ\text{F}$)

FOR MORE INFORMATION

Please call your Regional Customer Service Center today to learn what Entegris can do for you. Visit [entegris.com](https://www.entegris.com) and select the [Contact Us](#) link to find the customer service center nearest you.

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