

DemeSILK™

Silk Suture

DemeTech's Silk Sutures



DemeTech's Silk suture is a non-absorbable, sterile, surgical suture composed of an organic protein called fibroin. DemeTech's silk sutures are processed to remove the natural waxes and gums from its origin. DemeTech's Silk Sutures are available in black. As Silk is a natural fiber, it does illicit an acute inflammatory reaction, which is followed by gradual encapsulation of the suture by fibrous connective tissue (occurring usually in 14-21 days). While DemeTech's silk sutures are not considered absorbable sutures, progressive degradation of its fibers results in the gradual loss of tensile strength within the first year.

Characteristics of DemeTech's Silk Sutures:

- Raw silk is produced by a silkworm larva's cocoon. These natural waxes and gums are removed prior to the braiding process, allowing for a tighter, more compact braid.
- DemeTech's Silk suture is dyed black for easier visibility in tissue.
- DemeTech's Silk suture is non-absorbable and multifilament in nature.
- Although DemeTech classifies its silk suture as a non-absorbable suture, it loses most of its tensile strength in one year, and is completely absorbed in 2 years. Thus, DemeTech's Silk behaves like a very slow absorbing suture.
- DemeTech coats its Silk in silicon to limit absorption, increase ductility, and minimize tissue reactivity.

Gradual loss of
tensile strength
over time

Tensile Strength

Multifilament



Black

Material

Non
Absorbable
Suture

Absorption Profile