

Simsite®

Composite Sleeves

Sims®

since 1919



- Corrosion Resistance
- Erosion Resistance
- Longer Life Cycle
- Light Weight
- Better Wear Resistance
- Self-Lubricating
- Protects the Shaft
- Better Sealing

SIMSITE® ENGINEERED STRUCTURAL COMPOSITE SLEEVES:

There is absolutely no reason to use metallic shaft sleeves when you can use **SIMSITE®** Structural Composite Carbon Fiber Sleeves, which not only protect the shaft, but they are light weight, and seal better against the O-rings of the mechanical seals.

SIMSITE® Engineered Structural Composite Sleeves, will not corrode in seawater, brine, waste water, sewage, bromine, or chlorinated water and are excellent with most acid and alkaline solutions. All grades of **SIMSITE®** Sleeves have self-lubricating qualities, which allow for tighter clearances and prevents excessive shaft movement.

Sims manufactures sleeves machined from solid blocks of our patented engineered **SIMSITE®** Structural Graphite Composite material made of graphite fibers continuously interwoven in a tri-dimensional weave with a hybrid epoxy/phenolic resin system.



A **SIMSITE®** Sleeve with a synthetic fiber reinforcement system with Molybdenum Disulfide as a lubricant.

ADVANTAGES OF SIMSITE® SLEEVES:

- Corrosion Resistant
- Eliminates Electrolysis
- Protects the Shaft
- Exceptional Mechanical Strength
- Light Weight
- Holds the Shaft More Securely



- Can Take Dry Starts
- Longer Life
- Wears Better Against Guide Bearings
- Increases Operating Lifetime
- Seals Better against the Mechanical Seal



Contrary to metal sleeves, **SIMSITE®** Composite Sleeves allow for easy installation and removal. They are protective of the shaft against corrosion, electrolysis and wear and form a much better seal with Mechanical Seals.



Set screws, threads, or a keyway can be installed into **SIMSITE®** Composite Sleeves to prevent them from moving on the shaft. Compatibility with a wide range of chemicals allows for the use of **SIMSITE®** Composite Sleeves in a vast variety of environments. The structural integrity of our sleeves allows for usage with multiple grades of O-rings or gaskets. All **SIMSITE®** Structural Composite Sleeves are precision-machined on CNC Machining Centers to meet the most stringent specifications.

GRADES OF **SIMSITE®** SLEEVES

SMS - 375 ————— **High Strength Graphite Sleeve**

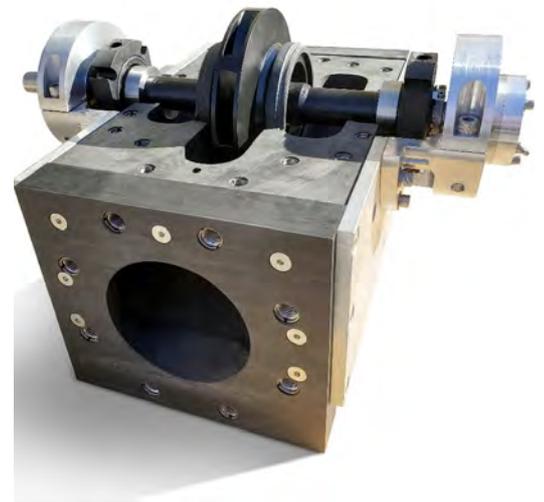
SMS - 300 ————— **Standard Grade Graphite Sleeve**

SMS - 380 ————— **Higher Temperature Synthetic Fiber Sleeve**



Sims Pump Designs and Manufactures Cartridge Style and Spring Loaded Type Mechanical Seals for ALL Centrifugal Pump Applications. SIMS PUMP Cartridge Mechanical Seals are unique because they incorporate **SIMSITE®** Structural Composite Glands and **SIMSITE®** Structural Composite Sleeves for superior corrosion resistance and sealing! **SIMSITE®** Sleeves and Glands are machined from solid blocks of the patented **SIMSITE®** Structural Carbon Fiber Composite Material.

The **SIMSITE®** Structural Composite Carbon Fiber Pump to the right shows a Rotating Element with two (2) **SIMSITE®** Sleeves located on a Shaft with a **SIMSITE®** Structural Composite Impeller & Casing Rings with two (2) **SIMSITE®** Cartridge Mechanical Seals with **SIMSITE®** Sleeves incorporated in the Mechanical Seal Design.



A Simsite® Structural Composite Pump Casing with two Simsite® Sleeves located on each side of the Simsite® Impeller with two (2) Simsite® Sleeves located inside of the two (2) Simsite® Cartridge-Style Mechanical Seals located on each end of the Pump Shaft.