



# Bay Composites, Inc.

Advanced Graphite Products

## Flexible Graphite

**Product Style Name:** FGF

**Descriptions:** Pure homogeneous flexible graphite foil, no resin binders or any other chemical fillers

**Typical Properties:**

### **Chemical Compositions**

Carbon Content: 99% Min.  
Total Sulfur: 1000 ppm Max.  
Leachable Chloride: 20 ppm Max.

### **Physical Properties**

Density: 70 lb./cu.ft.  
Compressibility: 45% (ASTM F 36)  
Recovery: 15% (ASTM F 36)  
Creep Relaxation: 5%  
Tensile Strength: 650 psi

**Thermal Conductivity:** Parallel to surface 1500 Btu-in/sq.ft.hr.<sup>°F</sup>  
Perpendicular to surface 50 Btu-in/sq.ft. hr.<sup>°F</sup>

### **Application Conditions**

**Applicable Media:** Water, sea water, steam, acids, alkalies, gases, oils, solvents, etc., except strong oxidizers

**Service Temperature:**

Minimum: -328°F (-200°C)

Maximum:

In air 932°F (480°C)

In steam 1200°F (652°C)

In reducing or  
inert media 5400°F (3000°C)

**Available Size:**

Thickness: from 0.005" to 1/16"

Width: up to 60"

Length: 108' Master Roll or custom length

**pH Value Range:** 0-14