

# SINGLE LAYER MATERIAL

## STANDARD GRADES

<b>GTA</b>	Non-inhibited, Nuclear 99.8% graphite
<b>GTJ</b>	Inhibited, Nuclear 99.8% graphite
<b>GTB</b>	Inhibited 98% graphite
<b>GTD</b>	SWG filler material 98.5% graphite
<b>GTX</b>	Highly inhibited

## GRAFOIL Grade GTA

GRAFOIL GTA premium flexible graphite is non-inhibited grade developed for use in nuclear or semiconductor applications. It is certified to meet the most rigorous purity specifications of the nuclear industry, including the General Electric Nuclear Nonmetallic Material Specification D50YP12 (Rev 2) and is typically 99.8% graphite.



## Grade GTA Typical Properties<sup>1</sup>

CHARACTERISTIC	TYPICAL PROPERTY
<b>Thickness</b>	0.003" (0.08 mm) Standard
	0.005" (0.13 mm) Standard
	0.010" (0.25 mm) Standard
	0.015" (0.38 mm) Standard
	0.020" (0.51 mm) Standard
	0.025" (0.64 mm) Standard
	0.030" (0.76 mm) Standard
<i>Non-standard thicknesses may be available upon request.</i>	
<b>Width</b>	24" (610 mm) Standard
	39.4" (1000 mm) Standard for 0.015" and 0.020" thick
<i>Non-standard widths may be available upon request.</i>	
<b>Length</b>	100' (30.5 m) Standard
	<i>Non-standard lengths may be available upon request.</i>
<b>Bulk Density</b>	70 lb/ft <sup>3</sup> (1.12 g/cc) Standard
<i>Non-standard densities may be available upon request.</i>	
<b>Ash Content</b>	0.2% Typical
<b>Carbon Content</b>	99.8% Typical
<b>Leachable Chloride</b>	<10 ppm Typical
<b>Sulfur Content</b>	450 ppm Typical
<b>Total Chlorides</b>	<50 ppm Typical
<b>Total Fluorides</b>	<10 ppm Typical
<b>Total Halogens</b>	40 ppm Typical
<b>Total Nitrates</b>	10 ppm Typical
<b>Total Nitrites</b>	1 ppm Typical
<b>Mercury (Hg)</b>	<0.5 ppm Typical
<b>Phosphorus</b>	30 ppm Typical
<b>Aluminum (Al)</b>	15 ppm Typical
<b>Copper (Cu)</b>	<10 ppm Typical
<b>Temperature Use Range</b>	-240°F to 850°F (-150°C to 450°C)
<b>Certification</b>	Certify to Grade

## APPLICATIONS

- Nuclear
- Semiconductor

<sup>1</sup>Properties listed are typical and cannot be used as accept/reject specifications. Specifications are listed under Technical Bulletin 101.