



# Quick Guide to Tantaline<sup>®</sup> Treatment

## Chemical Compatibility

Immune to nearly all organic and inorganic compounds with similar corrosion resistance to that of glass.

## Uses

Markets	Typical Processes	Applications
<ul style="list-style-type: none"> <li>▶ Chemical process</li> <li>▶ Oil &amp; Gas</li> <li>▶ Semiconductor</li> <li>▶ Pulp and Paper</li> <li>▶ Mining</li> <li>▶ Marine</li> <li>▶ General Industrial</li> </ul>	<ul style="list-style-type: none"> <li>▶ Hot acids, strong acid leaching &amp; strong acid etchants</li> <li>▶ Acid gases (CO<sub>2</sub>, SO<sub>2</sub>, H<sub>2</sub>S) in vapor phase, sour gas compounds</li> <li>▶ Wet and dry chlorine (Cl), corrosive sea water with chlorinated compounds &amp; oxidizing agents</li> <li>▶ Pressure oxidation, alkylation, nitration</li> <li>▶ Byproducts of silicon deposition</li> <li>▶ Ammonia and amine derivatives</li> </ul>	<ul style="list-style-type: none"> <li>▶ Agitators, stirrers, mixers, impellers</li> <li>▶ Valves</li> <li>▶ Bellows</li> <li>▶ Rupture disc holders</li> <li>▶ Fittings</li> <li>▶ Fasteners</li> <li>▶ Glass repair kits</li> <li>▶ Pumps, seals, couplings</li> <li>▶ Instrumentation (Thermowells, sensors, flowmeters)</li> <li>▶ Autoclaves and lab reactors</li> <li>▶ Heat exchangers</li> <li>▶ Tweezers</li> </ul>

## Limitations

Chemical	Physical
<ul style="list-style-type: none"> <li>▶ Hydrofluoric acid (HF) and fluorinated compounds</li> <li>▶ Fuming sulfuric acid (Oleum)</li> <li>▶ Mineral acids beyond 250°C</li> <li>▶ Strong base/alkaline media having pH &gt; 12</li> <li>▶ Air &gt; 300 °C</li> </ul>	<ul style="list-style-type: none"> <li>▶ Wear components</li> <li>▶ Large size components</li> <li>▶ Porous castings</li> </ul>