

The leading anti-corrosion character, outstanding electrical, physical and mechanical properties of tantalum is ideally suited for condensing, re-boiling, preheating and cooling of nitric acid, hydrochloric acid, bromic acid, sulfuric acid and combinations of these acids with many other chemicals. **TAF** tantalum equipments are fabricated from electron beam melted tantalum high purity rod, sheet and tubing. Equipments and components are designed and manufactured to meet specific operating conditions. **TAF** tantalum equipments include...

- ☛ Bayonet heater, heat exchangers, condensers & Coils.
- ☛ Thermocouple Protection sheaths - seamless, Seam welds or machined from bar stock.
- ☛ Pump casings, shafts & impellers.
- ☛ Distillation columns & boilers.
- ☛ Evaporation boats.
- ☛ Clad dip pipes & heaters.
- ☛ Paddle stirrers & agitators.
- ☛ Deep drawn or fabricated crucibles.
- ☛ Furnace parts for use at temperatures up to 2500C.
- ☛ Repair Kits for tanks, vats & other, glass-lined Containers.



Shell & Tube Heat Exchanger



Bayonet Heater



Tantalum Reactor



Tantalum Bayonet Refurbished



Tantalum Reactor

Material Comparison:

	TANTALUM	IMPREGNATED GRAPHITE	HASTELLOY
Production Downtime	None	Often	Seldom
Maintenance Costs	None	Very High	Little
Capital Costs	High	Low	Medium
Product Purity	No Contamination	Graphite Flakes	Heavy Metals Contamination
Corrosion	None	Yes	Yes
Drainability	complete	Liquid Holdup	Complete
Heat Transfer Fluid Compatible	Yes	No	Yes
Potential Catalyst to Process	No	No	Highly Caustic
Dual Containment Design	Standard	Impossible	Optional