TANTALUM CRUCIBLES & BOATS

The leading anti-corrosion character, Strength at high temperature, outstanding physical mechanical properties of tantalum is ideally suited for reboiling, preheating and condensing of nitric acid, hydrochloric acid, bromic acid, sulphuric acid and combinations of these acids with any other chemicals like aqua regia. TAF's tantalum equipments are to be made from electron beam melted high purity rod, sheet and tubings.

Because of its high melting point of 5432°F, tantalum has been widely used in the Electronics, Nuclear, Aerospace and chemical industries and in such areas as crucibles, boats, heat shields, and others components for vacuum furnace, where heat must be transferred to or from acids and other corrosive fluids and vapours.

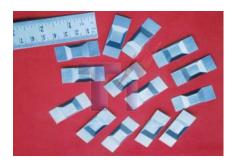
Tantalum Exhibits excellent resistance to most acids, especially hydrochloric, sulfuric, nitric and aqua regia at normal temperature and is also completely resistance to attack by many molten metals, including sodium, lithium, magnesium, potassium and mercury in temperatures up to 1100°C (2000°F)

Standard Dimensions of crucibles							
Capacity (ML)	Low Fo (mm)	Low Form (mm)			Straight Wall (mm)		
	Top Dia	Bottom Dia	Depth	Outer Dia	Depth		
5				21	19		
10				27	22		
15	36	32	23	33	22		
20	36	32	32	33	23		
25	47	40	23	47	22		
35	47	40	35	47	34		
45	47	40	42	47	41		
55	47	40	42	47	41		
75	51	44	42	47	41		
100	59	53	46	59	45		
250	83	72	60	83	57		
500	102	89	66	104	63		
1000	152	144	95	127	89		
1500	152	144	108	152	108		

Above sizes & capacities are approximate Std. Thk. 5 to 100ml. : 0.5mm Std. Thk 250 to 1500ml. : 0.8mm

Tantalum crucibles are standard or special shaped size as per customer's design. However, they are to be made by the process of precious deep draw forming spinning, punch press, forging, CNC precision turning & milling, Welding and fabrication from commercially pure tantalum confirming to ANSI / ASTM B708 and 365, Gr R05200.

HCL, Br, H2So₄, NaCl, KOH,Cl₂, HF, NaOH, Hno3, Fatty Acid, Lab Applications & Many



Tantalum Boat



Tantalum Crucibles

Corrosion resistance of Tantalum

With Molten Metals

Sodium	Upto 1200°c
Magnesium	Upto 1150°c
Lithium, Potassium, Lead	Upto 1000°c
Bismuth	Upto 900°c
Mercury	Upto 600°c
Zinc	Upto 500°c
Gallium	Upto 450°c

With Refractory Oxides

Alumina	Upto 1900°c
Berylia	Upto 1600°c
Magnesia	Upto 1800°c
Zirconia	Upto 1600°c
Thoria	Upto 1900°c

