

## Technical Datasheet

### Alumina Boat

1. Raw material Purity - 99.98%
2. Production Method - Slip casting and Pressure casting.
3. Sintered Alumina Boat- 99.8% Pure
4. Sintered Grain Size - 2-4 microns.
5. Porosity - < 0.5%
6. Compressive Strength - 2600 MPa
7. Tensile Strength (@ 250 °C) - 275 MPa
8. Hardness - 1440 Kg/mm<sup>2</sup>
9. Thermal Conductivity - 35 W/mK
10. Specific Heat - 880 J/KgK
11. Dimensions Tolerance - ± 1mm (up to 50mm)
12. Dimensions Tolerance - ± 2mm (Above 50mm)
13. Sintered Density: 3.9 gm/cc
14. Thermal Shock Behaviour: Temperature change rate should not exceed 150 °C/Hr
15. Maximum Operating Temperature - 1750°C
16. Ultra-High Vacuum Compatibility - Tested