

MATERIAL SPECIFICATION SHEET

Yttrium Oxide (Y₂O₃)

Molecular Weight	225.81 g/mol
Melting Point	2410 °C
Bulk Density	4.75 g/cc
Purity	99.9%
Max working temp	2050 °C
CTE	7.0 10 ⁻⁶ /°C
Elastic Modulus	150 GPa

Yttrium oxide (Y₂O₃), also known as yttria, is a rare-earth oxide with excellent high temperature stability in contact with molten metals such as titanium. Additional beneficial properties of yttria include stability in plasma processing environments experienced during semiconductor device processing.