

Sapphire/ruby

CHEMICAL COMPOSITION

 $\frac{AI_2O_3}{Cr_2O_3}$

0.9999 For rubis color * by difference

PHYSICAL PROPERTIES	Mean grain size Sintered density Bending strength at 20° C Hardness H _{v0.5}	- 3.99 g/cm ³ 200 MPa 2000 Hv	
THERMAL PROPERTIES	Thermal conductivity at 20°C	-	
ELECTRICAL PROPERTIES	Dielectric constant at 25°C-1MHz tan δ DC Volume resistivity at 25°C Dielectric strength at 3mm	- - 10 ⁹ Ω.cm -	

MICROSTRUCTURE NA

KEY FEATURES

Good wear and corrosion properties

TYPICAL APPLICATIONS Plungers, watch movement components, high wear resistant components, optical applications in medical, microelectronics, thermal control, chemical industry, laser technology, high-pressure applications.