Steatite

Features

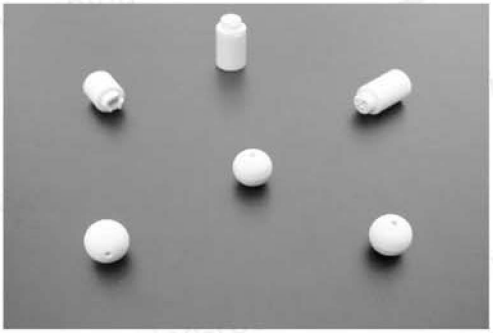
- High Mechanical Strength
- Low Dielectric Loss
- Resistance to Acid and Alkali

Applications

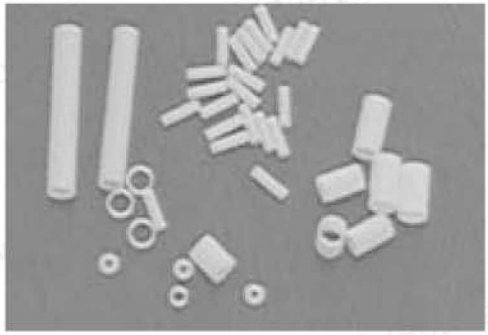
- High Frequency Insulator
- Insulating Parts for Radar and TV

Characteristics of Material

Item	Unit	Value
Main Composition		$MgO \cdot SiO_2$
Bulk Density	g/cm^3	2.8～3.1
Mohs Hardness		7.5
Compressive Strength	MPa	580
Tensile Strength	MPa	70
Bending Strength	MPa	125
Thermal Expansion Coefficient	$\times 10^{-6}/℃$	6.9(at 25～300℃)
Dielectric Constant (at 1MHz)		6.0
Dielectric Loss Angle (at 1 MHz)	$\times 10^{-4}$	6～8
Insulating Strength	kV/mm	20～30
Volume Resistivity	Ω cm	$>10^{12}$



Special insulator



Ring, pipe