

TECHNICAL BULLETIN

RPA MC-37

MINERALOGICAL ANALYSIS :

phases:

Mullite
Cordierite
Silicon Carbide

CHEMICAL ANALYSIS:

		Results	
Aluminum Oxide + Silicon Carbide	Al ₂ O ₃ + SiC	48,72	(%)
Silicon Oxide	SiO ₂	43,10	(%)
Magnesium Oxide	MgO	6,50	(%)
Iron Oxide	Fe ₂ O ₃	0,70	(%)
Titanium Oxide	Ti ₂ O ₂	0,58	(%)
Potassium Oxide	K ₂ O	0,29	(%)
Sodium Oxide	Na ₂ O	0,03	(%)
Calcium Oxide	CaO	0,08	(%)

PHYSICAL PROPERTIES:

	Minimum	Maximum	
Water Absorption	9,0	11,0	(%)
Apparent Porosity	19,0	23,0	(%)
Apparent density	2,10	2,15	(g/cm ³)
Modulus of Rupture at 25°C	200	260	(Kgf/cm ²)
Thermal expansion at 325°C	13	19	(10 ⁻⁷ °C ⁻¹)
Maximum Working Temperature	-	1290	(°C)
