



REGISTERED NUMBER 211972 ENGLAND

Richard Baker Harrison Ltd  
Northern Office  
Marsh Trees House  
Marsh Parade  
Newcastle Under Lyme  
Staffordshire ST5 1BT  
Tel: +44(0)1782 622666  
Fax: +44(0)1782 622655  
[www.rbhltd.com](http://www.rbhltd.com)  
[sales@rbhltd.com](mailto:sales@rbhltd.com)

# SINTALITE

## (Calcined Kaolin)

### Technical Data Sheet

<b>1. CHARACTERISTICS</b>								
<ul style="list-style-type: none"><li>• Calcination at high temperature (1530°C) ensures a stable mineralogical composition and consistent production quality.</li><li>• Mineralogical composition consists only of mullite crystals and amorphous SiO<sub>2</sub> glass, both having low and uniform rate of thermal expansion, producing articles with good thermal shock resistance and strength.</li><li>• Slurries will gel consistently well due to the absence of any active ions.</li></ul>								
<b>2. CHEMICAL ANALYSIS</b>								
SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	CaO	MgO	K <sub>2</sub> O	Na <sub>2</sub> O	
53.0	43	≤ 0.70	0.67	0.21	0.04	1.39	0.33	
<b>3. PHYSICAL PROPERTIES</b>	Mineralogical composition% by X-ray Diffraction			Mullite		55 %		
				Amorphous SiO <sub>2</sub> glass		45 %		
	Coefficient of linear thermal expansion			≤ 4.4 x 10 <sup>-5</sup>				
	Initial deformation refractoriness test			34-35				
	Specific Gravity			2.70				
	Hardness			7-8 Mohs' Scale				
True Porosity			8 %					
<b>4. SIZE RANGE</b>								
Refractories: 2-6.7, 2-4.7, 1-2(mm) or as per client's requirement Kiln Furniture: -22, -30, -80, -120 (mesh) Investment casting filler: -200 (mesh) Stucco: 16-30, 30-80, 22-60 (mesh) Special grades of Sintalite can be produced to customers' requirements and specification.								
<b>5. Packing</b>								
In 25kg plastic woven bags on pallet, shrink-wrapped.								

The data given on this sheet is based on test results believed to be representative of the product and should not be interpreted as a binding specification. We believe all information given is accurate. It is offered in good faith, but without guarantee, since conditions of use are beyond our control. All risks of use are assumed by the user. Nothing herein shall be construed as a recommendation for uses which infringe valid patents or as extending a licence under valid patents.