

**GENERAL SPECIFICATION****COCKBURN QUICKLIME- KILN 6**

Values stated within this specification are based upon monthly mean results from daily grab samples. Individual results may from time to time lie outside these ranges and such occurrence should not necessarily be regarded as failure of the sampled batch to conform to this general specification.

Parameter	Method	Units	Typical	Range	AS1672-1997 Limits
<b>Chemical Analysis</b>					
SiO <sub>2</sub>	XRF	%	7.5	5.5 – 10.0	
Al <sub>2</sub> O <sub>3</sub>	XRF	%	0.5	0.3 – 0.6	
Fe <sub>2</sub> O <sub>3</sub>	XRF	%	0.2	0.1 – 0.3	
CaO	XRF	%	84.0	80.0 – 87.5	
MgO	XRF	%	5.1	4.9 – 5.4	
SO <sub>3</sub>	XRF	%	1.0	0.9 – 1.1	
LOI	AS4489-1997	%	0.8	0.2 – 1.4	
CO <sub>2</sub>	AS4489-1997	%	0.7	0.3 – 1.1	≤ 5%
Available CaO	AS4489-1997	%	81.5	79.0 – 84.5	≥ 60%
<b>Physical Analysis</b>					
<i>Slaking by method</i> ASTM C110					
Total Temperature rise		°C	44.5	40.5 – 48.5	
Total Active slaking time		mins	6.5	5.0 – 8.5	
<b>Parameter</b>	<b>Sieve (mm)</b>	<b>Units</b>	<b>Cumulative Retained</b>		
			<b>Typical</b>	<b>Range</b>	
<b>Residue by Rotap</b>					
	6.7	%	nil	nil	
	2.36	%	0.2	0.0 – 0.6	
	0.60	%	2.5	0.5 – 4.0	
	0.30	%	13.0	7.0 – 19.0	
	0.15	%	51.5	42.0 – 62.0	
	0.045	%	75.0	65.0 – 85.0	
<b>Loose Bulk Density</b>					
		kg/l	0.85	0.79 – 0.90	