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## ESCOTT ZEOLITE MAJOR ELEMENTS

Escott Zeolite is a natural rock containing as the main crystalline component the zeolitic mineral clinoptilolite, together with minor amounts of mordenite (another zeolite mineral), quartz, clay (smectite) and mica.

Zeolitic minerals are hydrous aluminosilicates that in the soil environment can be considered very stable. Zeolite considerably raises the Cation Exchange Capacity in its agricultural/horticultural applications. The zeolite is able to freely exchange certain plant nutrients, acting to significantly improve fertiliser utilisation. Cationic nutrient ions, such as those of calcium, magnesium, potassium, sodium and particularly ammonia are exchanged in this way.

The Cation Exchange Capacity of Escott Zeolite is greater than 120 meq./100g. Only the exchangeable cations can be considered available in agriculture. In the natural state the exchangeable cations of Escott Zeolite are

**Na : K : Ca : Mg  
3 : 1 : 21 : 5**

Zeolite Australia Limited makes no claims that the major elements listed below are available for agriculture nutritional purposes

### CHEMICAL ANALYSIS OF MAJOR ELEMENTS IN ESCOTT ZEOLITE

<b>Major Element</b>	<b>Zeolite Rock (%)</b>	<b>Major Element</b>	<b>Zeolite Rock (%)</b>
<b>SiO<sub>2</sub></b>	<b>68.26</b>	<b>CaO</b>	<b>2.09</b>
<b>TiO<sub>2</sub></b>	<b>0.23</b>	<b>Na<sub>2</sub>O</b>	<b>0.64</b>
<b>AlO<sub>3</sub></b>	<b>12.99</b>	<b>K<sub>2</sub>O</b>	<b>4.11</b>
<b>Fe<sub>2</sub>O<sub>3</sub></b>	<b>1.37</b>	<b>P<sub>2</sub>O<sub>5</sub></b>	<b>0.06</b>
<b>MnO</b>	<b>0.06</b>	<b>SO<sub>3</sub></b>	<b>0.00</b>
<b>MgO</b>	<b>0.83</b>	<b>LOI</b>	<b>8.87</b>
		<b>TOTAL</b>	<b>99.51</b>

Notes: .1. Escott Zeolite XRF chemical analysis by J Bedford, UNE.

2. Information on Escott Zeolite remains the property of Zeolite Australia Limited and cannot be used without written Permission