



TECHNICAL DATA SHEET

Product Group: ZEOLITE
Product: ECCALITE fines

DESCRIPTION

A granulated natural Zeolite from the Clinoptilolite mineral group. It has high cationic exchange and absorption properties. Acts as mycotoxin binder and absorbs heavy metals which lower digestive stress and need for antibiotics. Absorbs moisture and traps ammonia in stalls to reduce odour. Increases retention of fertilizers in soils.

MINERALOGICAL CONSTITUENTS (Approximate)

Clinoptilolite: >90%
Quartz: <5%

TYPICAL CHEMICAL ANALYSIS

SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	TiO ₂	CaO	MgO	K ₂ O	Na ₂ O	L.O.I.
64.3	12.7	1.3	0.1	1.2	1.3	1,7	2,3	8.4

PHYSICAL PROPERTIES (Typical)

Colour (crude): White to grey
 Odour: None
 Appearance: Granules
 Particle size distribution: 80% 1-5mm nominal (10% > 5mm and 10% < 1mm)
 Moisture: <15%
 Specific gravity: 2,51 g/cm³
 Bulk Density: 1,2 g/cm³
 Viscosity Marsh Funnel: Immediate: 21 seconds
 PH (30g in 60ml water): 8-9
 Cationic Exchange Capacity: 16 mg/kg
 Water Absorption; 400 (on sinter plate)
 Surface Area: BET Method 43 m²/g
 Average Pore Volume: >0.1cm³/g
 Average Pore Size: 73 Angstrom or 7 nm

HEALTH AND SAFETY

Eccalite (Zeolite) is a granular alumino silicate product, which generates dust when handled in dry conditions. Eccalite is low of acute toxicity and is low in dust likely to yield respirable silica levels. A dust mask is recommended for use when handling this product in bulk quantities. The material is a natural desiccant. Handling with gloves or the use of a barrier cream will prevent drying of the skin.

This product is non-explosive and poses no fire or explosive hazards.

PACKAGING

Eccalite is available in the following packaging:

- 1,0 metric ton woven polypropylene bulk bags.
- 40 kg multiply bags, 25 bags per 1,0 metric ton pallet.
- 25kg multiply bags, 40 bags per 1,0 metric ton pallet.

DATA ARE TYPICAL OF OUR NORMAL PRODUCTION AND ARE SUBJECT TO NORMAL VARIATION, THEY SHOULD NOT BE TAKEN AS A BINDING SPECIFICATION. WHERE A PROPERTY IS CRITICAL, CONFIRMATION SHOULD BE OBTAINED FROM ECCA HOLDINGS (PTY) LTD.

Date: November 2009

Approval Signature: _____
(Mine Manager)

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