

### FEATURES

### MILES, QUEENSLAND

Unimin's Trubond is a natural sodium Bentonite mined and processed near Miles in Queensland. Trubond contains a high proportion of the active mineral species montmorillonite, which has a unique structure and chemistry. These are responsible for a range of characteristics that makes Trubond useful in many agricultural applications.

Trubond is tested and controlled to rigorous standards which ensure consistent chemical and physical properties resulting in predictable and repeatable performance. Unimin Australia actively manages a Quality Management System certified to ISO9001:2008.

Unimin's Trubond Bentonite is used in a wide range of agricultural applications. A major feature is bond strength and this is demonstrated by the use of Trubond as a pelletising agent in stock feed manufacture and as a binding agent in Lucerne and forage sorghum cubing. The following typical properties may help you to determine the suitability of the product to best suit your application.

Miles Trubond (07/09)

### CHEMICAL & ANALYTICAL DATA

Mean Values. These Do Not Represent A Specification

Mean Percent by Weight	(UAL 8.5)	
Silicon Dioxide	(SiO <sub>2</sub> )	63.6
Aluminum Oxide	(Al <sub>2</sub> O <sub>3</sub> )	14.6
Titanium Dioxide	(TiO <sub>2</sub> )	0.4
Iron Oxide	(Fe <sub>2</sub> O <sub>3</sub> )	2.8
Calcium Oxide	(CaO)	0.3
Sodium Oxide	(Na <sub>2</sub> O)	1.3
Magnesium Oxide	(MgO)	2.0
Potassium Oxide	(K <sub>2</sub> O)	0.5
Loss on Ignition	(1000°C)	14.5
Dry Screen (% Passing 75microns)		78
Wet Screen (% Retained 75microns)		2
Bulk Density, Loose	(t/m <sup>3</sup> )	1.0
Cation Exchange Capacity	(meq/100ml)	80
Moisture Content	(%)	10

### PHYSICAL PROPERTIES

Mean Values. These Do Not Represent A Specification

Water Absorption	(ml/2g)	625
ASTM Plate Method		
<u>Suspension Properties</u>		
Apparent Viscosity	(cP)	6
Plastic Viscosity	(cP)	5
Yield Point	(lb/100ft <sup>2</sup> )	1
Filtrate Loss	(ml)	18
pH		7.0

### ORDERING INFORMATION

Shipping Point: Miles, Queensland  
 Availability: 25 kg Multi-Wall Paper Bags / Bulk Bags / Bulk Tanker

**DISCLAIMER:** Ranges and values of trial sample testing or on a Technical Information Sheet are typical or expected ranges and are not guaranteed ranges. You must satisfy yourself that the product is suitable for the purpose for which you intend to use it. Unimin makes no representations as to suitability, fitness or merchantability.

**HAZARD WARNING:** Prolonged inhalation can cause delayed lung injury including silicosis, a progressive, disabling and sometimes fatal lung disease. In accordance with the National Occupational Health and Safety Commission's "Approved Criteria for Classifying Hazardous Substances", Free Crystalline Silica (Quartz) has been classified as a Hazardous Substance. This product contains Free Crystalline Silica (Quartz). The International Agency for Research on Cancer has determined that Free Crystalline Silica inhaled from occupational sources can cause cancer in humans. Risk of injury is dependent on the duration and level of exposure. The risk of lung disease is increased if smoking is combined with silica respiration.

Avoid creating dust when handling, using or storing the product. Use only with adequate ventilation to keep exposure low. Do not use as a dry abrasive blasting agent. Undertake health and safety risk assessments on safe methods of handling and use appropriate to your workplace.

To prevent inhalation of airborne dust, wear respiratory protection in accordance with Australian Standard AS1715 and AS1716. To prevent potential irritation to eyes, wear eye protection in accordance with Australian Standard AS1337.

Please refer to the relevant Unimin Australia Limited Material Safety Data Sheet (MSDS) for health hazard information before opening or using this product and take care when disposing of the empty bag/container (as it may contain product residue). If you do not have an MSDS, please ring the following ACOHS 24 hour emergency phone number: 1800 638 556 and you will be sent one.

### FOR PRODUCT INFORMATION AND CUSTOMER SERVICE

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