

PRODUCT DATASHEET

– AquaSil Product Range –

Product Classification:

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|---------------------------------------|---|
| Product Class: | Agricultural – Plant Available Silica (PAS) |
| Registration Number: | TBA |
| Description & Application: | Highly soluble natural amorphous freshwater diatomaceous earth, an excellent source of Plant Available Silica |

Chemical Properties:

| Component | CLASSIFIED - Typical | MILLED & DRIED - Typical |
|---|----------------------|--------------------------|
| Amorphous Silica as SiO ₂ | >86% | >70% |
| SiO ₂ (crystalline) on 250 micron wet screen | <3% | <18% |
| Surface Moisture | <3% | <4% |
| Al ₂ O ₃ | <5.0% | <5.0% |
| Fe ₂ O ₃ | <0.9% | <0.9% |
| CaO | <0.1% | <0.1% |
| K ₂ O | <0.6% | <0.6% |
| MgO | <0.2% | <0.2% |
| Na ₂ O | <0.3% | <0.3% |
| TiO ₂ | <0.3% | <0.3% |
| pH (aqueous) | 7 | 7 |

Physical Properties:

| Component | CLASSIFIED - Typical | MILLED & DRIED - Typical |
|---|---|---------------------------|
| <1000micron | 100% | 95% |
| <500micron | 100% | 85% |
| <250micron | 99% | 82% |
| <75micron | 95% | 75% |
| <45micron | 85% | 75% |
| Colour / Texture | Beige / light powder | Beige-grey / powder |
| Specific Surface Area | 20 – 30 m ² /g | 15 – 25 m ² /g |
| Solubility of a 10% aqueous extract as [Si, ppm] after 120 days | >83% of theoretical maximum | Not Determined |
| Soluble Si provided per ton product after 120 days | 300 kg / 30% | 244 kg / 24.4% |
| Crystallography | Amorphous organic SiO ₂ , KAISi ₃ O ₈ , Al ₂ Si ₂ O ₅ (OH) ₄ | |

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