



## Technical Data Sheet Exfoliated Vermiculite

Reviewed: 7 Jul 2026

| CHEMICAL ANALYSIS |       |
|-------------------|-------|
| Amorphous Silica  | 42.3% |
| Aluminium Oxide   | 11.9% |
| Ferric Oxide      | 10.2% |
| Calcium Oxide     | 6.6%  |
| Magnesium Oxide   | 23.4% |
| Sodium Oxide      | 0.2%  |
| Potassium Oxide   | 4.4%  |
| Titanium Oxide    | 0.8%  |

| PHYSICAL PROPERTIES      |                                         |
|--------------------------|-----------------------------------------|
| Appearance               | Free flowing brown granules             |
| Water Retention          | 45% by volume/530% by weight            |
| Cation Exchange Capacity | 70-90 m. eq/100g                        |
| Thermal Conductivity     | 0.062w/m.K                              |
| Solubility               | Insoluble in water and organic solvents |

*The figures quoted in this data sheet are, to the best of our knowledge, representative of the product. Natural products do vary, so these figures are approximations for guidance only. As conditions of use are beyond our control, no liability is accepted for any loss or damage sustained arising from the use of this information or any products. Because of ongoing developments, the product parameters may be changed without notice.*

| GRADE                                   | 0         | 1         | 2       | 2+     | 3      | 4       |
|-----------------------------------------|-----------|-----------|---------|--------|--------|---------|
| Product                                 | Superfine | Superfine | Fine    | Fine   | Medium | Coarse  |
| Loose Bulk Density (kg/m <sup>3</sup> ) | 120-160   | 110-160   | 100-130 | 90-120 | 80-115 | 80-115  |
| 6.70mm                                  |           |           |         |        |        | 80-90%  |
| 4.75mm                                  |           |           |         |        |        | 90-95%  |
| 4.00mm                                  |           |           | 0-5%    | 0-5%   | 0-50%  |         |
| 3.35mm                                  |           |           |         | 0-5%   |        | 97-99%  |
| 2.00mm                                  |           | 0-15%     | 15-50%  | 25-60% | 40-85% | 99-100% |
| 1.40mm                                  |           | 15-50%    | 25-55%  | 10-40% | 5-30%  |         |
| 0.60mm                                  | 25-35%    | 35-75%    | 10-55%  | 5-20%  | 0-2%   |         |
| PRIMARY APPLICATIONS                    | 0         | 1         | 2       | 2 +    | 3      | 4       |
| Horticulture                            |           |           | X       | X      | X      | X       |
| Seed Topping                            |           |           | X       | X      |        |         |
| Absorbent                               | X         | X         | X       | X      | X      | X       |
| Refractory                              |           |           | X       | X      |        |         |
| Brake lining                            |           | X         |         |        |        |         |

| TEST METHODS                                                        |                                       |
|---------------------------------------------------------------------|---------------------------------------|
| Chemicals by XRF                                                    | PSD by sieve on BS410 sieves          |
| Moisture by drying 110 deg.c for 1.5hrs                             | Loose Bulk Density by PI200-77        |
| Organic Content - Weight of matter soluble in carbon tetra chloride | Thermal Conductivity per ASTM C518-98 |
| Specific Gravity by water immersion                                 | Compacted Density as per PI 201-77    |

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