

## TYPICAL PRODUCT SPECIFICATION

# 1515S

## WOLLASTONITE (CALCIUM METASILICATE)

### CHEMICAL COMPOSITION

| COMPONENT                      | WEIGHT % |
|--------------------------------|----------|
| CaO                            | 46.50    |
| SiO <sub>2</sub>               | 52.20    |
| Fe <sub>2</sub> O <sub>3</sub> | 0.20     |
| Al <sub>2</sub> O <sub>3</sub> | 0.25     |
| MgO                            | 0.20     |
| L.O.I. (inorganic)             | < 1.00   |
| L.O.I. (organic)               | < 0.05   |
| Moisture                       | < 0.10   |

### MORPHOLOGY

|                                      |       |
|--------------------------------------|-------|
| Length (μ) <sup>1</sup>              | 250.0 |
| Diameter (μ) <sup>1</sup>            | 15.0  |
| Aspect Ratio <sup>2</sup>            | 15.0  |
| D50 (μ) <sup>3</sup>                 | 45.0  |
| Surface Area (m <sup>2</sup> /g) BET | 0.8   |

### WET SCREEN ANALYSIS

|        |    |
|--------|----|
| % -100 | 87 |
| % -200 | 50 |
| % -325 | 29 |
| % -400 | 26 |
| % -500 | 13 |

### MINERAL DESCRIPTION

Wollastonite is a naturally occurring, non-metallic, acicular (needle-shape) mineral.

### TYPICAL PROPERTIES

|                    |                        |
|--------------------|------------------------|
| Appearance         | White Powder           |
| Morphology         | Acicular               |
| pH                 | 9 – 10                 |
| Specific Gravity   | 2.9                    |
| Refractive Index   | 1.63                   |
| Moh's Hardness     | 4 – 5                  |
| Coef. of Expansion | 6.5 x 10 <sup>-4</sup> |
| Melting Point      | 1,540 °C               |
| G.E. Brightness    | 85                     |

### DENSITY & OIL ABSORPTION

|                     |                        |               |
|---------------------|------------------------|---------------|
| Loose Bulk Density  | (g/cc)                 | 0.85 +/- 0.13 |
|                     | (lbs/ft <sup>3</sup> ) | 53.0 +/- 8.0  |
| Tapped Bulk Density | (g/cc)                 | 1.10 +/- 0.17 |
|                     | (lbs/ft <sup>3</sup> ) | 68.7 +/- 10.3 |
| Oil Absorption      |                        | 32            |

<sup>1</sup> Microscopic measurement average of 100 counts

<sup>2</sup> Average of 100 individual aspect ratios

<sup>3</sup> Malvern Mastersizer

Final determination of the suitability of the material for the use contemplated is the sole responsibility of the user. No warranty is expressed or implied, and the manufacturer's only obligation shall be to replace such quantity of the product proven to be defective.