

## TYPICAL PRODUCT SPECIFICATION

# 520U

# 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>	55.0
Diameter (μ) <sup>1</sup>	5.0
Aspect Ratio <sup>2</sup>	20.0
D50 (μ) <sup>3</sup>	8.5
Surface Area (m <sup>2</sup> /g) BET	2.0

### WET SCREEN ANALYSIS

% -100	99.9
% -200	97.8
% -325	89.4
% -400	78.1
% -500	65.6

### 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	90

### DENSITY & OIL ABSORPTION

Loose Bulk Density	(g/cc)	0.26 +/- 0.04
	(lbs/ft <sup>3</sup> )	16.2 +/- 2.4
Tapped Bulk Density	(g/cc)	0.44 +/- 0.07
	(lbs/ft <sup>3</sup> )	27.5 +/- 4.1
Oil Absorption		45

<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.