



POSECO, INC.
PRODUCTION CONTROL SPECIFICATION

Date: SUGGESTED 4/16/73

REVISION _____

Date Made: PERMANENT

REVISION _____

REVISION _____

RAW MATERIAL NO.: X-3562
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Wollastonite

FINISHED PRODUCT NAME: _____
M.C.S. Code No.: _____

TEST REQUIRED AND SPECIFICATION:

- (1) Supplier's Description Grade F-1, Medium Fiber (Interpace Corp.)
- (2) Bulk Density (Untamped) 0.30 to 0.40 g/cc.
- (3) Sieve Grading: Through 200 Mesh - 80 to 90% (Wet)

Procedure Use 25 gram sample, wash on 8 in. 325 mesh screen under moderate water pressure for 10 minutes. Wash with alcohol and dry in oven at 110°C.. Shake on Ro-Tap for 10 minutes and weigh residue on screen.

$$\frac{25 \text{ grams} - \text{grams of residue}}{25} \times 100 = \% \text{ through 200 mesh}$$

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Properties	
Chemical Formula	CaSiO ₃
Molecular Weight	116
Crystalline Shape	Acicular
Specific Gravity	2.9
Coefficient of Expansion(mm/°C)	6.5 x 10 ⁻⁶
Refractive Index	1.63
Transition point (to pseudo Wollastonite °C)	1200
Melting Point (°C)	1540
Solubility in Water(gm/100cc)	0.0095
Hardness (Moh's scale)	4.5
Color	Brilliant White
Weight (lb./solid gallon)	24.2
Bulking value (Gal./1 lb.)	0.0413
pH (10% Slurry)	9.9

Properties	
Avg. Particle Size by Fisher Sub Sieve Sizer	8.2
Particle Size Distribution by Sedimentation	
Cumulative % minus 20 Microns	45
" " " 10 "	22
" " " 5 "	13
" " " 3 "	9
" " " 1 "	7
50% Median Size (Microns)	22
Bulk Density (lb./cu.ft.)	
Loose - - - - -	27
Tapped - - - - -	52
Oil Absorption (Rub-Out, lb./100 lb.)	
	45.5

Chemical Analysis

(Z)

SiO ₂	50.90
CaO	46.90
FeO	0.55
Al ₂ O ₃	0.25
MnO	0.10
MgO	0.10
TiO ₂	0.05
LOI	0.90

Issued by Investigator: A. F. Ekar Approved by: [Signature]

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