



HIGH CALCIUM LIMESTONE

PRODUCTION FACILITY: Faulkner Plant – Faulkner, Manitoba

PRODUCT DESCRIPTION:

A fine grained, powdery white product derived from crushing and grinding fined grained creamy white high-calcium limestone rock composed primarily of calcium carbonate (CaCO₃).

COMPOSITION AND TYPICAL CHEMICAL PROPERTIES: (ASTM C 25, C 1271, C 1301)

		%
Calcium Carbonate (CaCO ₃), (%)		94.7
Calcium (Ca)		37.9
Magnesium Carbonate (MgCO ₃)	1.0	
Magnesium (Mg)		0.3
Silica (SiO ₂)	2.6	
Ferric Oxide (Fe ₂ O ₃)		0.2
Alumina (Al ₂ O ₃)		0.7
Total Sulfur (S)		0.01
Loss on Ignition		42.3

TYPICAL PHYSICAL PROPERTIES:

	“0” Grind	325	Poultry Grit	Supercal	Premix
Nominal size (mm)	0 – 0.630	0 – 0.045	1.25 – 5	0.160 – 1.25	0.250 – 0.630
Bulk Density (ASTM C110) (kg/m ³)	1050 – 1535	930 – 1215	1295 – 1455	1400 – 1650	1440 – 1600
(lbs/ft ³)	66 – 96	58 – 76	81 – 91	87 – 103	90 – 100

CLASSICAL REFERENCE DATA: (CRC Handbook of Chemistry and Physics)

Specific Gravity (Pure calcite)	2.71
Solubility in Water (25 °C), (g/l)	0.014 – 0.015
pH (saturated solution) (25 °C)	9.4

SIZE DISTRIBUTION:

SIEVE (mm)	SIEVE (U.S.A)	% PASSING	% PASSING	% PASSING	% PASSING	% PASSING
4.000	No. 5			100		
3.150	No. 6			85 – 100		
2.000	No. 10				100	
1.250	No. 16			0 – 1	95 – 100	100
0.630	No. 30				15 – 60	85 – 100
0.400	No. 40	100				
0.315	No. 50	85 – 100				
0.250	No. 60					0 – 15
0.200	No. 70				0 – 10	
0.080	No. 200	55 – 80	100			
0.045	No. 325	40 – 70	95 – 100			

NOTICE:

*The test data herein is based on average results on production samples. Product shipments are subject to normal variation. Accordingly, test data can not be taken as establishing maximum or minimum specifications.