

High Calcium Limestone “Poultry Grit”

Nominal size: 1.25 – 3.15 mm

Production Facility: Exshaw Plant – Exshaw, Alberta

Description:

A light to dark gray microcrystalline pure limestone produced from a high-purity limestone deposit by quarrying, crushing, grinding, and screening operations. A sedimentary rock composed predominantly of calcium carbonate (CaCO₃).

Typical Chemical Properties:

	%
Calcium Carbonate (CaCO ₃), (%)	95.9
Calcium (Ca)	38.4
Magnesium Carbonate (MgCO ₃)	2.0
Magnesium (Mg)	0.6
Silica (SiO ₂)	1.6
Ferric Oxide (Fe ₂ O ₃)	0.1
Alumina (Al ₂ O ₃)	0.2
Manganese Oxide (MnO) (ppm)	< 50
Total Sulfur (S)	0.03
Loss on Ignition	43.3

Classical Reference Data:

Specific Gravity (Pure Calcite)	2.71
Solubility in Water (25 °C), (mg/l)	14
pH (saturated solution (25 °C)	8 – 9
Crushing Strength (mPa)	8.3 – 195.8
Hardness (Mohs)	2 – 4
Specific Heat (38 °C) (cal/g. °C)	0.114
Dielectric Constant	8 – 12



Typical Physical Properties:

Bulk Density: Loose/packed 1378 – 1474 kg/m³ or 86 – 92 lb/ft³

Size Distribution:

Sieve (mm)	Sieve (USA)*	% Passing
5.00	No. 4	100
4.00	No. 5	99.8
3.15	No. 6	97
2.50	No. 8	86
2.00	No. 10	51
1.60	No. 12	19
1.25	No. 16	3
0.160	No. 100	0.9

* approximate USA mesh size corresponding to mm