

3M™ Industrial Grade Nepheline Syenite 700 Wet

3M Industrial Grade Nepheline Syenite 700 Wet is a naturally occurring nepheline syenite material.

1. Typical mineralogy

Igneous intrusive (plutonic) rock primarily consisting of potassium feldspar and plagioclase feldspar, and secondarily containing nepheline, pyroxene, biotite, amphibole, magnetite, ilmenite, sodalite, analcime, and natrolite.

2. Typical* chemical analysis reported as % oxide (X-Ray Fluorescence)

Chemical Component	Actual Monthly Results	Typical Range*	
		Lower	Upper
Silicon Dioxide (SiO ₂)	59.4	57.9	60.5
Aluminum Oxide (Al ₂ O ₃)	19.2	17.6	20.5
Potassium Oxide (K ₂ O)	5.9	5.4	6.7
Sodium Oxide (Na ₂ O)	7.7	5.7	10.4
Iron Oxide (Fe ₂ O ₃)	2.8	2.1	4.0
Calcium Oxide (CaO)	1.6	1.1	2.0
Titanium Dioxide (TiO ₂)	0.97	0.3	1.6
Magnesium Oxide (MgO)	1.1	0.0	1.8

*This product is a naturally occurring mineral that is processed and is stored outside; the moisture level, chemical composition and size will vary. Typical Range is updated on an annual basis to incorporate recent data.

3. Size analysis (Microtrac S3500 Laser Diffraction)

% passing	µm	mesh
95	555	27
50	157	95
30	72	208
10	19	790

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