

# 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	2021 Average	Typical Range*	
		Lower	Upper
Silicon Dioxide (SiO <sub>2</sub> )	59.0	57.9	60.5
Aluminum Oxide (Al <sub>2</sub> O <sub>3</sub> )	19.2	17.6	20.5
Potassium Oxide (K <sub>2</sub> O)	6.0	5.4	6.7
Sodium Oxide (Na <sub>2</sub> O)	7.8	5.7	10.4
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> )	2.8	2.1	4.0
Calcium Oxide (CaO)	1.8	1.1	2.0
Titanium Dioxide (TiO <sub>2</sub> )	1.0	0.3	1.6
Magnesium Oxide (MgO)	1.2	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. Annual average is compiled from monthly 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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