

3M™ Industrial Grade Nepheline Syenite 200 Dry

3M Industrial Grade Nepheline Syenite 200 Dry 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	2022 Average	Typical Range*	
		Lower	Upper
Silicon Dioxide (SiO ₂)	58.4	57.8	58.7
Aluminum Oxide (Al ₂ O ₃)	19.3	19.1	19.5
Potassium Oxide (K ₂ O)	5.8	5.8	5.9
Sodium Oxide (Na ₂ O)	6.8	6.5	7.3
Iron Oxide (Fe ₂ O ₃)	3.3	3.0	3.6
Calcium Oxide (CaO)	1.8	1.7	1.9
Titanium Dioxide (TiO ₂)	1.1	1.0	1.2
Magnesium Oxide (MgO)	1.4	1.2	1.5

*This product is a naturally occurring mineral that is processed and is sold as-is; the moisture level, chemical composition and size will vary. Annual average is compiled from regular sampling.

3. Size analysis (Microtrac S3500 Laser Diffraction)

% passing	µm	mesh
95	188	80
69	74	200
50	47	320
10	10	1500

4. Specific Gravity (Gas Pycnometer)

2.628

Warranty; Limitation of Remedy and Liability. 3M warrants to customer that the 3M product will, at the time of shipment by 3M, meet the “Typical Value Ranges” for chemical composition that are provided in this Information Sheet (“3M Warranty”). If it is proven that any 3M product does not conform to this warranty, customer’s exclusive remedy and 3M’s sole obligation will be, at 3M’s option, to either replace the 3M product or to refund the purchase price of any 3M product that does not conform. All warranty claims must be made within 15 days of delivery of the product by 3M. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE. Many factors that are uniquely within customer’s knowledge and control can affect the use and performance of 3M product in a particular application. The customer is solely responsible for inspecting and evaluating the Product and determining whether it is fit for a particular purpose and suitable for the customer’s process and application. For customer’s convenience, 3M may provide data sheets, testing data (including physical and chemical analysis data), specifications, bulletins, engineering or technical information, recommendations, and other information or materials relating to 3M products (“Product Information”), but 3M only makes the 3M Warranty and does not warrant any Product Information. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, 3M WILL NOT UNDER ANY CIRCUMSTANCES BE LIABLE TO CUSTOMER FOR DIRECT, SPECIAL, INCIDENTAL, INDIRECT OR CONSEQUENTIAL DAMAGES (INCLUDING, WITHOUT LIMITATION, LOSS OF PROFITS) IN ANY WAY RELATED TO A 3M PRODUCT, ITS PERFORMANCE AND USE, REGARDLESS OF THE LEGAL OR EQUITABLE THEORY ON WHICH SUCH DAMAGES ARE SOUGHT.