Nepheline S

Nepheline Syenite

Netherlands Maastricht

Features & Benefits

Nepheline Syenite micronized functional fillers and extenders are proven performance enhancers in a broad range of paints, coatings, adhesives, sealants, and inks. Excellent brightness, tint retention and weatherability can be achieved in exterior paints. Improved colour, sheen uniformity, chemical and stain resistance, and durability result when **Nepheline Syenite** is used in interior paint formulations.

Nepheline Syenite is easily dispersed in all conventional vehicle systems, and low oil absorption permits high loadings in adhesives, sealants, and aqueous and alkyd based paints.

Multiple grades are available to provide optimal performance in a variety of applications. **Nepheline Syenite** is ideally suited for higher gloss coatings and is also the preferred choice for powder and clear paint systems.

Nepheline Syenite fillers are produced from nepheline syenite; a naturally occurring, silica deficient, sodium-potassium alumina silicate. Automated scanning electron microscopy confirms that **Nepheline Syenite** contains less than one-tenth of one percent crystalline silica. No free crystalline silica is detectable in the mineral complex.

Nepheline Syenite is processed and sized with rigid adherence to ISO 9001 quality assurance programs. Consistently uniform chemistries, size distributions, and top size controls ensure improved structural and chemical performance with minimal resin demand.

Granulometric Data & Physical Characteristics

Mean values. These do not represent a specification.

		S4	**S6**	**S7**	**S10**	Method
Condition PO		Powder	Powder	Powder	Powder	
D50	µm	12.8	7.8	7.2	4.7	Laser diffraction,
D90	µm	32.7	16.0	15.0	9.4	Laser diffraction,
Colour	L*	94.0	94.7	95.0	96.1	Minolta CM 3610 d
	a*	0.24	0.19	0.18	0.16	D65/10°
	b*	1.81	1.66	1.64	1.2	
Moisture	%	0.21	0.25	0.30	0.40	Halogen analyser 105°C
Oil Absorption	g/100 g	21	22	24	29	ISO 787/5
pH		10.5	10.7	10.9	11.0	
Density	g/cm3	2.6	2.6	2.6	2.0	He Pyknometer
Bulk density compacted	g/cm3	0.7-1.2	0.7-1.2	0.7-1.2	0.7-1.2	EN 1097-3
Refractive index		1.5	1.5	1.5	1.5	ASTM D-801
Hardness	Mohs	6	6	6	6	

Chemical Analysis

Mean values. These do not represent a specification.

	Weight %	Method
SiO_2	55.7	XRF
Al_2O_3	24.0	XRF
Na_2O	7.8	XRF
K_2O	8.7	XRF
CaO	1.6	XRF
Fe_2O_3	0.10	XRF
L.O.I..	1.1	1000°C, 1 hour

For Availability, Product Information & Customer Service

Sibelco, P.O. Box 423, 6200 AK Maastricht

PHONE +31 (0)43 7995002
E-mail: customersupport.nl@sibelco.com
Web: www.sibelco.com

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