

FEATURES & BENEFITS

GRANUSIL® Mineral Filler, which is approximately 94.85% silica, has a subangular shape and contains natural oxides. This mineral filler is produced from lake sand for a wide variety of industrial and contractor mixed applications which need a reliable silica contribution or require a chemically inert structural filler. Consistently uniform grain shapes and particle size distributions offer excellent placement, compaction and mechanical properties. High silica content combined with low level soluble ions, alkalis and alkaline oxides provide non-reactive service in most corrosive and exposed environments.

These durable monocrystalline structures resist abrasion in high traffic-excessive wear applications and provide the stability formulators seek in high solids emulsions, elastomeric, cemented and modified cementitious systems. GRANUSIL is the preferred structural component in systems ranging from polymerized floor overlays to artificial sports turf.

All GRANUSIL grades are processed and sized under rigid Covia QIPSM statistical and quality assurance programs. The result is chemical purity and consistently uniform particle size distributions for predictable performance in either manufactured or site-prepared products.

PARTICLE SIZE ANALYSIS

Typical Mean Values. These Do Not Represent a Specification.

	Mesh Size		GRANUSIL® Grades						
	ASTM	50LS	55LS	60LS	65LS	70LS	80LS	SP-52*	SP-80*
Typical mean % retained on individual sieves	20	tr	tr	tr	tr	tr	tr	tr	tr
	30	2.5	2.0	2.0	2.0	1.5	0.5	2.5	0.5
	40	10.0	8.0	6.0	4.0	3.0	1.0	10.0	1.0
	50	29.0	22.0	17.0	13.0	9.0	3.0	29.0	3.0
	70	39.0	36.0	29.0	26.0	21.0	10.0	39.0	10.0
	100	17.5	26.0	31.0	37.0	41.0	49.0	17.5	49.0
	140	2.0	6.0	12.0	14.0	19.0	26.0	2.0	26.0
	200	0	0	3.0	4.0	5.0	9.0	0.0	9.0
	270	0	0	0	0	0.5	1.0	0.0	1.0
	PAN	0	0	0	0	0	0.5	0.0	0.5
AFS/GFN	–	50.0	55.0	60.0	65.0	70.0	80.0	50.0	80.0

*SP grades are sold in the US

PHYSICAL PROPERTIES

Typical Mean Values. These Do Not Represent a Specification.

GRANUSIL® Mineral Filler					
Grain Shape	Subangular	AFS 107-87-S	Specific Gravity (g/cm ³)	2.65	ASTM C-128
Clay Content (%)	0.10	AFS 110-87-S	Moisture Content (%)	<0.1	ASTM C-566
Acid Demand Value (ADV)	1.0	AFS 114-87-S	Bulk Density/Loose (lb/ft ³)	92-95	ASTM C-29
Melting Point (°F/°C)	2775/1523	ASTM C-24	Bulk Density/Compacted (lb/ft ³)	98-100	ASTM C-29

CHEMICAL ANALYSIS

Typical Mean Values. These Do Not Represent a Specification.

Typical Mean Percent by Weight	
Loss on Ignition (LOI)	<0.5
Silicon Dioxide (SiO ₂)	94.85
Iron Oxide (Fe ₂ O ₃)	0.21
Aluminum Oxide (Al ₂ O ₃)	2.81
Potassium Oxide (K ₂ O)	1.35
Sodium Oxide (Na ₂ O)	0.29
Potassium Oxide (K ₂ O)	<0.01
Calcium Oxide (CaO)	0.21
Magnesium Oxide (MgO)	0.09

ORDERING INFORMATION

- Shipping Point: Hamilton, ON
- Availability: Bulk, IBC
Truck

CUSTOMER SERVICE

US & Canada: 1-800-639-1235
Worldwide: 1-203-442-2500

3 Summit Park Drive, Suite 700, Independence, OH 44131 | CoviaCorp.com

GRADE NUMBERS INDICATE RELATIVE VALUES OR RESULTS. THEY ARE NOT A SPECIFICATION OR WARRANTY OF PERFORMANCE.

Health Hazard Warnings: Prolonged inhalation of dust associated with the materials described in this data sheet can cause delayed lung injury including Silicosis, a progressive, disabling and sometimes fatal lung disease. IARC and NTP have determined that crystalline silica can cause lung cancer in humans. Risk of injury is dependent on the duration and level of exposure. Follow OSHA or other relevant safety and health standards for the form of crystalline silica called Quartz. Current safety data sheet, containing safety information, is available and should be consulted before usage.

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Silica/Silica Containing

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