

INDUSTRIAL
CHEMICALS
DIVISION



Bulletin 17-2D

Typical Property Data for PQ[®] Potassium Silicates

PQ's Potassium Silicates are water-soluble products of potassium oxide (K₂O) and silica (SiO₂) manufactured from potassium silicate glass, which is produced in furnaces by melting high purity sand with potassium carbonate.

PQ Potassium Silicates are alkaline and available in a range of SiO₂: K₂O ratio as liquids, flake glass (KASIL[®]) and as spray-dried soluble powder (KASOLV[®]) for use in numerous industrial applications. For additional information, see our website: www.PQCorp.com

PQ Potassium Silicates are characterized by the data shown below. The properties and ranges shown are typical values, not manufacturing specifications. Physical properties are measured at 20°C (68°F). Electronic-grade KASIL is available. For more information, please contact PQ Technical Service at 416-201-4355.

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PQ Corporation is a leading producer of silicate, zeolite, and other performance materials serving the detergent, pulp and paper, chemical, petroleum, catalyst, water treatment, construction, and beverage markets. It is a global enterprise, operating in 19 countries on five continents, and along with its chemical businesses, includes Potters Industries, a wholly owned subsidiary, which is a leading producer of engineered glass materials serving the highway safety, polymer additive, metal finishing, and conductive particle markets.

PQ Product Name	Wt Ratio SiO ₂ :K ₂ O ±0.05	Wt % K ₂ O ±0.15	Wt % SiO ₂ ±0.08	Density			Viscosity cps
				°Be [°] ±0.3	lb/gal	g/cm ³	
KASIL [®] 1	2.50	8.3	20.8	29.8	10.5	1.26	40
KASIL [®] 6	2.10	12.7	26.5	40.3	11.6	1.38	1,050
KASIL [®] 18	1.80	14.6	26.3	42.5	11.8	1.40	45
KASIL [®] 33	2.10	11.6	24.4	37.3	11.2	1.34	43
KASIL [®] 2130	2.10	9.5	20.0	30.8	10.6	1.27	-

PQ Product Name	Wt Ratio SiO ₂ :K ₂ O ±0.01	Wt % K ₂ O ±0.8	Wt % SiO ₂ ±0.9	Wt % H ₂ O ±3.0	Density		Particle Size, Tyler
					lb/ft ³	g/cm ³	
KASIL [®] 2.5 Flake Glass	2.50	28.4	71.0	0	77	1.24	1" x 1/6" plates
KASOLV [®] 16	1.60	32.5	52.8	14.5	43	-	99% thru 40 mesh
KASIL [®] SS Pwd	2.50	28.4	71.0	0	51	-	48% thru 200 mesh

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