

Premium Gel[®]

Application: Refractory Brick suspensions, Industrial Products

Grade: General Purpose 200 Mesh Powder

TYPICAL ANALYSIS

General Description	General purpose filler for use when mild thixotropic properties are desirable. Premium Gel is a 200 mesh rheology enhancer		
Chemical Formula	Diocahedral smectite, an expanding layer silicate: $(\text{Na,Ca})_{0.33}(\text{Al}_{1.67}\text{Mg}_{0.33})\text{Si}_4\text{O}_{10}(\text{OH})_2 \cdot n\text{H}_2\text{O}$		
	<u>Parameter</u>	<u>Typical Analysis</u>	<u>API Specification</u>
	Fann 600 Reading	35.0 cps.	30 cps min
	Fann 300 Reading	25.0 cps	-----
	Plastic Viscosity	10.0 cps	-----
	Yield Point (lb / 100ft ²)	15	3 X Plastic Visc max.
	Apparent viscosity	17.5 cps	
	Dry Screen Analysis (% less than US 200 mesh)	80	----
	Wet Screen Analysis (% retained on US 200 mesh)	2.5 – 4.0	----
	%Moisture	~ 9	10 max
	pH	9.0 – 10.0	-----
Elemental Analysis (Moisture Free)	SiO ₂ 61.3%	Na ₂ O 2.57 %	
	Al ₂ O ₃ 19.8 %	K ₂ O 0.4%	
	Fe ₂ O ₃ 3.9 %	Trace 3.23%	
	MgO 1.3%	H ₂ O Crystal 6.5%	
	CaO 0.6%	pH 8.9% - 10.5%	
Packaging	Multi-wall paper bags (25 kg), or bulk		

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