

Volclay[®] SP

Application: Suspending agent, Gellant binder

Grade: Sodium Bentonite powder

TYPICAL ANALYSIS

General Description	High purity air-floated Sodium Bentonite consisting of grayish – white micron sized particles								
Functional Use	Suspending agent, gellant binder for use in Personal Care & Cosmetics								
Purity	Hydrous aluminium silicate comprised principally of the clay mineral montmorillonite. Montmorillonite content = 99.75% minimum								
Chemical Formula	A tri-layer expanding structure of approximately $(\text{Na,Ca})_{0.33}(\text{Al}_{1.67}\text{Mg}_{0.33})\text{Si}_4\text{O}_{10}(\text{OH})_2\text{Na}^+\text{Ca}^{2+}_{0.33}$								
Moisture	14% max								
Swelling Power	22mls minimum / 2g								
Viscosity	8 - 30 cps @ 6.25% solids. Fann viscometer , 8cps. Minimum, (1 part bentonite to 15 parts deionized water (6.25% solids) dispersed on high speed mixer)								
Dry Particle Size	Minimum 99.5% passing 200 mesh (75 microns)								
pH	8.5 to 10.5 @ 5% solids.								
Elemental Analysis (Moisture Free)	<table border="0"> <tr> <td>Al₂O₃ 21.08%</td> <td>Fe₂O₃ 3.25 %</td> </tr> <tr> <td>FeO 0.35 %</td> <td>MgO 2.67 %</td> </tr> <tr> <td>Na₂O 2.57 %</td> <td>CaO 0.65 %</td> </tr> <tr> <td>Trace 0.72%</td> <td></td> </tr> </table>	Al ₂ O ₃ 21.08%	Fe ₂ O ₃ 3.25 %	FeO 0.35 %	MgO 2.67 %	Na ₂ O 2.57 %	CaO 0.65 %	Trace 0.72%	
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Packaging	Multi-wall paper bags (20 kg)								

The information and data contained herein are believed to be accurate and reliable. AMCOL Specialty Minerals makes no warranty of any kind and accepts no responsibility for the results obtained through application of this information.