

AccoForm[®] WA

General Description	High purity sodium montmorillonite, selectively mined in the United States, consisting of micronized particles and supplied as a free-flowing powder.		
Functional Use	This high purity montmorillonite is specifically mined for use as a drainage, retention, and formation aid in the manufacture of paper products, especially fine paper grades. Best performance is achieved when used in combination with a medium to high molecular weight cationic or non-ionic flocculant.		
Purity	Principally composed of the clay mineral montmorillonite. Contains minor amounts of crystalline silica, plagioclase, calcite and gypsum.		
Solubility	Dispersible but insoluble in water or alcohol. One gram of clay produces a surface area greater than 750 sq. meters when fully dispersed.		
Moisture	7 - 12% as shipped	Texture	Soft, slippery
Settleable	15% maximum	Odour	None
ISO TAPPI Brightness	Typically 56	Taste	None
pH	9.5–11.0 @ 5% solids	CEC	Typically 100 meq/100g
Wet Particle Size	Minimum 99.8% finer than 325 mesh (44 microns).		
Dry Particle Size	Minimum 98.0% finer than 325 mesh (44 microns).		
Chemical Formula	Diocahedral smectite, an expanding layer silicate: $(\text{Na,Ca})_{0.33}(\text{Al}_{1.67}\text{Mg}_{0.33})\text{Si}_4\text{O}_{10}(\text{OH})_2 \cdot n\text{H}_2\text{O}$		
Elemental Composition	Typical analysis – moisture free.		
	SiO ₂ 62.76 %	Na ₂ O 4.82 %	
	Al ₂ O ₃ 22.17 %	CaO 1.68 %	
	Fe ₂ O ₃ 4.33 %	K ₂ O 0.58 %	
	MgO 2.92 %		
	All metals are expressed as oxides, which are complexed in the mineral		
Packaging	Available in 1 ton big-bags or bulk		

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