

Revised January 2009

## AccoForm<sup>®</sup> BIP

<b>General Description</b>	High purity sodium montmorillonite, selectively mined, consisting of micronized particles and supplied as a free-flowing powder.		
<b>Functional Use</b>	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.		
<b>Purity</b>	Principally composed of the clay mineral montmorillonite. Contains minor amounts of kaolinite, calcite, plagioclase, anatase, hematite, opal c-ct and quartz.		
<b>Solubility</b>	Dispersible but Insoluble in water or alcohol. One gram of clay produces a surface area greater than 750 sq. meters when fully dispersed.		
<b>Moisture</b>	7 - 14% as shipped	<b>Texture</b>	Soft, slippery
<b>Odour</b>	None	<b>Taste</b>	None
<b>CEC</b>	Typically 116 meq/100g	<b>Settleable</b>	15% maximum
<b>ISO TAPPI Brightness</b>	Typically 39	<b>pH</b>	9.5–11.0 @ 5% solids
<b>Wet Particle Size</b>	Minimum 99.8% finer than 325 mesh (44 microns).		
<b>Dry Particle Size</b>	Minimum 98.0% finer than 325 mesh (44 microns).		
<b>Chemical Formula</b>	Diocahedral smectite, an expanding layer silicate:  $(\text{Na,Ca})_{0.33} (\text{Al}_{1.67}\text{Mg}_{0.33})\text{Si}_4\text{O}_{10}(\text{OH})_2 \cdot n\text{H}_2\text{O}$		
<b>Elemental Composition</b>	Typical analysis – moisture free.		
	SiO <sub>2</sub> 56.24%	Na <sub>2</sub> O	4.01 %
	Al <sub>2</sub> O <sub>3</sub> 24.95 %	CaO	0.87 %
	Fe <sub>2</sub> O <sub>3</sub> 8.95 %	K <sub>2</sub> O	0.21 %
	MgO 2.11 %		
	All metals are expressed as oxides, which are complexed in the mineral		
<b>Packaging</b>	5-ply multi-wall poly-lined bags 25kg net, 1,000kg bulk bags or bulk		

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