

Revised November 2009

## AccoFloc<sup>®</sup> 350

<b>General Description</b>	High purity sodium montmorillonite, selectively mined in the United States, consisting of micronized particles and supplied as a free-flowing powder.		
<b>Functional Use</b>	This high purity montmorillonite is specially mined for use as a flocculant aid for industrial and municipal process and wastewater treatment. When dispersed in a wastestream, Accofloc <sup>®</sup> 350 binds with contaminants to help increase floc size and weight. The resulting floc increases treatment efficiency and improves effluent turbidity and sludge dewatering. Best performance is achieved when used in combination with a medium to high molecular weight cationic or nonionic flocculant.		
<b>Purity</b>	Principally composed of the clay mineral montmorillonite. Contains minor amounts of crystalline silica, plagioclase, calcite and gypsum.		
<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>Odor</b>	None	<b>CEC</b>	Typically 100 meq / 100g
<b>Settleable</b>	15% maximum	<b>Taste</b>	None
<b>ISO TAPPI Brightness</b>	Typically 55 .	<b>pH</b>	8.5 - 10.5 @ 5% solids
<b>Dry Particle Size</b>	Minimum 65% passing 200 mesh (74 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> 66.75 %`	Na <sub>2</sub> O	1.86 %
	Al <sub>2</sub> O <sub>3</sub> 21.69 %	CaO	1.34 %
	Fe <sub>2</sub> O <sub>3</sub> 3.97 %	K <sub>2</sub> O	0.45 %
	MgO 2.98 %		
	All metals are expressed as oxides, which are complexed in the mineral		
<b>Packaging</b>	Available in 1 metric tonne big-bags or bulk.		

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