AMCOL® PAPER TECHNOLOGIES

TECHNICAL DATA

Revised January 2009

AccoSorb® I

General Description

AccoSorb® I is a selectively mined sodium-activated montmorillonite which has been finely milled and is supplied as a free-flowing powder.

Functional Use

This montmorillonite is specifically mined and modified for use as a pitch control agent to partially or wholly replace organic and inorganic pitch control agents. The specific surface area and chemical nature of the product makes it particularly suitable for passivation and adsorption of stickies and pitch particles in the stock approach system of a paper machine.

Purity

Principally composed of colloidal montmorillonite. Contains trace amounts of Quartz, Plagioclase, Calcite, Hematite and Siderite.

Solubility

Dispersible but insoluble in water or alcohol. One gram of montmorillonite produces a surface area greater than 750 sq. metres when fully dispersed.

Moisture	7 - 14% as shipped	**Texture:**	Soft, slippery
Odour	None	**Taste**	None
ISO TAPPI Brightness	Typically 24	**pH**	9.5–11.0 @ 5% solids

Wet Particle Size

Minimum 99.0% finer than 300 mesh (53 microns)

Dry Particle Size

Minimum 90.0% finer than 200 mesh (75 microns)

Chemical Formula

Montmorillonite, a dioctahedral smectite (expanding phyllosilicate)

$(Na,Ca)\ 0.33\ (Al1.67Mg0.33)Si4O10(OH)2.nH2O.$

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Elemental Analysis

Typical values listed are not to be construed as rigid specifications.

SiO_2	56.20%	Na_2O	2.63%
Al_2O_3	20.09%	CaO	1.77%
MgO	3.38%	K_2O	0.16%
Fe_2O_3	13.64%		

All metals are expressed as oxides, which are complexed in the mineral.

Packaging

Available in multi-wall paper bags (25kgs), 1 metric tonne big-bags or bulk.