Technical Fact Sheet

CFF® 111-3 Wet Fibrillated Acrylic Pulp

General Description

CFF® 111-3 fibrillated pulp is a high surface area acrylic pulp used in friction papers. This pulp is available in a 30% nominal solids form which can easily be redispersed in water using conventional hydropulper equipment. It can then be processed on a variety of equipment including rotoformers, cylinder machines, and Fourdrinier machines. The contributions of this product include water dispersibility, mechanical binding characteristics, excellent environmental resistance, adhesion to phenolic resins, and higher thermal stability than cellulose. Papers with a wide range of properties can be prepared by using either the fibrillated fiber alone, in combination with acrylic staple, or in combination with other fibers, pulp, or organic particles. In addition to excellent mechanical strength, this acrylic pulp also has higher temperature resistance and char yield compared to cotton linters.

Relative Performance of CFF® 111-3 Pulp and Cotton Linters

Binder Fiber	Char Yield (%) of Fiber at 500 ^{0}C	Tensile Strength of Paper (lbs/in)
CFF® 111-3	70	5
Cotton Linters	13	0.5

Strength Retention of Acrylic Paper made with CFF® 111-3 Pulp After Exposure to Various Automotive Fluids

	Air (125 ^{0}C)	Nitrogen (180 ^{0}C)	Transmission Fluid (125 ^{0}C)	Motor Oil (125 ^{0}C)	Gasoline (23 ^{0}C)
Retention of Tensile Strength (%)	110	85	105	100	98

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