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NUPLY™ HIGH TEMPERATURE PAPER INSULATION

Nutec, Inc is pleased to introduce our new line of wet-laid, non-woven paper products call **NuPly™**. **NuPly** is manufactured in two fiber grades, **MaxPly2** made with **MaxWool-HI** alumina-silica refractory ceramic fiber and **SuperPly2** manufactured using our low bio-persistent, silica-calcium-magnesium oxide fiber, SuperMag- HI.

Both grades are available in similar widths and thickness, and have the same density and other physical properties. 'HI' high index, low shot fibers combined with a natural process washing gives **NuPly Papers** the low dust and improved low thermal conductivity of premium grade high temperature paper. **NuPly Papers** contain a small amount of acrylic binders, which will burn-out in high temperature applications.

PRODUCT PROPERTIES

PAPER GRADE	SUPERPLY2		MAXPLY2	
	°F	°C	°F	°C
<u>Thermal Rating</u>				
Maximum	2200	1200	2300	1260
Recommended	2100	1100	2150	1175
Melt Temp	2750	1500	3260	1800
<u>Chemical Analysis</u>				
Al2O3	>1%		47%	
SiO2	65%		52%	
CaO	30%		>1%	
MgO	5%		ND	
Other	>1%		>1%	



PHYSICAL DATA

PAPER GRADE	SUPERPLY2			MAXPLY2		
Style#	SP2-175F	SP2-350J	SP2-700K	MP2-175F	MP2-350J	MP2-700K
Free Thickness (4 PSF)	1/16" (1.6mm)	1/8" (3.2mm)	1/4" (6.4mm)	1/16" (1.6mm)	1/8" (3.2mm)	1/4" (6.4mm)
Rated Thk (8 PSI)	.040"	.080"	0.16"	.040"	.080"	0.16"
Green Tensile (PSI)	55 to 75 (average)			80 to 110 (average)		
Fired Tensile (PSI)	2 - 3 (min)			2 - 3 (min)		

THERMAL CONDUCTIVITY (ASTM C-201)

PAPER GRADE	SUPERPLY2		MAXPLY2	
Mean Temp	Btu-in/hr SF °F	W/m ² °C	Btu-in/hr SF °F	W/m ² °C
500F (200C)	0.39	0.06	0.38	0.40
1000F (538C)	0.65	0.09	0.61	0.63

1500F (815C)	1.05	0.15	0.94	0.95
2000F (1100C)	n.a	n.a	1.40	1.38

*All Data shown are average results of test conducted under standard test procedures and are subject to variation, and therefore not recommended for specification purposes. SuperPly / SuperMag papers comply with European Directive 97/69/EC.

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