



ERBA ISOLANTI srl

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DATA 1 Sett '09 : Pag: 1 / 1 06_3_1 Power board 3052 GB.doc	POWERBOARD AK TRAFOPRESSPAN OF PURE CELLULOSE PSP3052 DIN 7733 and IEC 641	Codice P3052D xxxK
		Scheda tecnica 06 3 1
		Gruppo A

Composition / Properties

- POWERBOARD AK is a natural coloured, hot pressed pressboard made of 100 % unbleached sulphate cellulose (type 3.1 according to IEC 60641-3-1).
- POWERBOARD AK is characterized by its high purity and its high mechanical strength.
- POWERBOARD AK offers low shrinkage and also a low compressibility. Moreover it offers also a high oil absorbtion.

Application

- The major application for KREMPEL POWERBOARD AK are insulation cylinders and insulation parts in power transformers.

For thermal class 105°C (class A) according to IEC 60085

Properties	Thickness mm	Unit	Nominal Value
Thickness tolerance	≤ 1,6	%	± 7,5
	> 1,6		± 5,0
Apparent density	≤ 1,6	g/cm ³	1,0 - 1,2
	> 1,6 - 3,0		1,1 - 1,25
	> 3,0		1,15 - 1,3
Tensile strength MD	≤ 1,6	MPa (N/mm ²)	≥ 100
	> 1,6 - 3,0		≥ 105
	> 3,0		≥ 110
Tensile strength CD	≤ 1,6	MPa (N/mm ²)	≥ 75
	> 1,6 - 3,0		≥ 80
	> 3,0		≥ 85
Elongation MD	-	%	≥ 2,5
			≥ 3,5
Compressibility - C	≤ 1,6	%	≤ 10
	> 1,6 - 3,0		≤ 7,5
	> 3,0		≤ 5,0
Reversible part of compressibility - C _{rev}	≤ 1,6	%	≥ 45
	> 1,6 - 3,0		≥ 50
	> 3,0		≥ 50
Shrinkage MD	-	%	≤ 0,5
			≤ 0,7
			≤ 5,0
Thickness			

The statements in this publication are based on our present knowledge and experience. Due to the number of possible influences in the processing and application of our products, these statements do not exempt the user from making his own tests and experiments. They cannot be taken as legally binding assurance regarding certain properties or suitability for a particular application. Any possible patent rights as well as existing laws and provisions must be observed at the responsibility of the user.

Properties	Thickness mm	Unit	Nominal Value
Cohesion between plies	-	N/30mm	≥ 250
Moisture content	-	%	≤ 6,0
Ash content	-	%	≤ 0,7
Conductivity of aqueous extract	≤ 1,6	μS/cm	≤ 5,0
	> 1,6 - 3,0		≤ 6,0
	> 3,0		≤ 8,0
pH of aqueous extract			6 - 9
Oil absorbtion	≤ 1,6	%	≥ 11
	> 1,6 - 3,0		≥ 9
	> 3,0		≥ 7
Electric strength in air	-	kV/mm	≥ 12
Electric strength in oil	≤ 1,6	kV/mm	≥ 45
	> 1,6		≥ 35

All values are measured according to standard IEC 60641-2

Available dimensions of sheets

Thicknesses	1,0 - 4,0 mm
Dimension of sheets	4200 x 2200 mm 4200 x 1100 mm 2100 x 2200 mm 2100 x 1100 mm Other dimensions on request

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