



# AH&AHA Polyaromatic Amide Fiber Paper & Polyimide Film Composites

**Polyaromatic Amide Fiber Paper & Polyimide Film Composites** are a family of 2,3-ply laminates of aramid paper bonded to one side or both sides of polyimide film. It has not only excellent dielectric and mechanical strength of polyimide film, but the better tear resistance and excellent varnish absorption of aramid paper, so it is a reliable class-H insulation material for electrical machines.

\*Note: Aramid paper is abbr. of polyaromatic amide fiber paper

## Characters:

- \*High mechanical strength, good dielectric strength with thinner slot insulation ply.
- \*Good thermal stability, it can work for a long term under 200°C for class-H insulation.
- \*Excellent tear resistance and flexibility, easy to be applied
- \*Low dielectric dissipation, it can work in harsh condition

## Spec.:

Type	AH-22	AHA-222	AHA-232	AHA-323	AHA-333	AHA-535
Normal Thickness mm	0.11	0.17	0.20	0.22	0.25	0.35
Mean tolerance mm	±0.01	±0.02	±0.02	±0.02	±0.02	±0.03
Basis weight g/m <sup>2</sup> ±10%	125	175	210	224	260	360
Aramide paper mm	0.05	0.05	0.05	0.075	0.075	0.13
Polyimide Film mm	0.05	0.05	0.075	0.05	0.075	0.075
Supply size	Supplied in rolls, core diameter: 76mm(Φ3"), width: 900+/-5mm					

\*Customization is also available

## Typical Properties

Property items	Test methods	Units	Typical Value					
			AH-22	AHA-222	AHA-232	AHA-323	AHA-333	AHA-535
1. Visual	The surface should be even and free from wrinkle, blister, adhesive particle and impurity.							
2. Dielectric	A	kV	≥8	≥8	≥9	≥9	≥9	≥10
3. Tensile strength	Machine direction	N/cm	≥120	≥140	≥160	≥180	≥200	≥270
	MD. after bending	N/cm	≥70	≥90	≥90	≥130	≥150	≥180
	Cross direction	N/cm	≥80	≥90	≥100	≥110	≥120	≥170
	CD. after bending	N/cm	≥50	≥70	≥80	≥80	≥100	≥130
4. Breakdown strength	Machine direction	%	≥10	≥10	≥10	≥10	≥10	≥10
	Cross direction	%	≥8	≥8	≥8	≥8	≥8	≥8
5. Adhesion	A		No delamination, no bladder.					
	200°C/10min		No delamination, no bladder.					

## Storage:

The product is packed in reinforced carton and sealed in plastic film bag. Please keep dry and in room temperature, fire and dampness proofing. The storage life is 12 months.

## Applications:

**Polyaromatic Amide Fiber Paper & Polyimide Film Composite** is suitable for slot insulation, interphase insulation, ground insulation in electric machines and for layer insulation in transformers.

*Note: 1.All of above information is based on our best knowledge, not read as guarantees. Right reserved for corrections.  
2.Please contact us if customization requirements.*

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