

TECHNICAL SPECIFICATIONS

Thermal Conductivity	ASTM D5470	8.5 W/m·K
Color	Visual	Gray
Density	ASTM D1475	2.6 g/cm ³
Phase Change Temperature	N/A	45 – 55 °C
Electrically Conductive	ASTM D257	No
Operating Temperature	N/A	-50 to +250 °C
Reusable	N/A	Yes
Curing Required	N/A	No
Compliance	N/A	RoHS · Non-Conductive

SCOPE OF DELIVERY

- 1× FusionSheet PTM thermal interface sheet (per selected size variant)
- 1× Paper package with protective film

PRODUCT DESCRIPTION

FusionSheet PTM is Amawi Technologies' phase change thermal interface material, engineered for applications requiring a set-and-forget thermal solution. The gray sheet delivers 8.5 W/m·K conductivity and transitions at 45°C from solid to semi-liquid, flowing into every microscopic surface imperfection for maximum contact area. On cooling it returns to solid, locking in place with no pump-out or dry-out over years of operation. Available in three sizes for CPUs, GPUs, and custom form factors. Simply cut to shape and apply; no tools required.

KEY FEATURES

- 8.5 W/m·K thermal conductivity combined with a unique 45 – 55°C phase change for optimal gap filling
- Transitions from solid to semi-liquid at operating temperature, conforming to microscopic surface irregularities
- Returns to solid state when cooled; remains in place with no pump-out or migration
- Electrically non-conductive; safe for direct contact with exposed components and PCB traces
- Zero maintenance after installation; no re-application required during the product lifespan
- Available in three sheet sizes: 38×38 mm, 50×40 mm, and 80×40 mm

TYPICAL APPLICATIONS

CPU Die to Cooler	GPU Die to Spreader	Laptop Repaste
Server Processors	Delidded CPUs	Custom Water Loop
Console Cooling	Power Electronics	Long-Term Installs

PLEASE NOTE

The specifications in this data sheet are based on our current knowledge and experience. They should not be construed as a legally binding assurance of specific properties or suitability for any particular application. Slight deviations from stated values are possible due to production tolerances. Amawi Technologies reserves the right to modify specifications without prior notice. It is the responsibility of the user to ensure compliance with applicable laws and regulations.

ARTICLE / ORDERING INFORMATION

ARTICLE NO.	SHEET SIZE	PACKAGE DIMENSIONS	AVAILABLE AT
AT-FSH-38-38-R	38 × 38 mm	17 × 8 × 0.5 cm	amawitech.com
AT-FSH-50-40-R	50 × 40 mm	17 × 8 × 0.5 cm	amawitech.com
AT-FSH-80-40-R	80 × 40 mm	17 × 8 × 0.5 cm	amawitech.com

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