

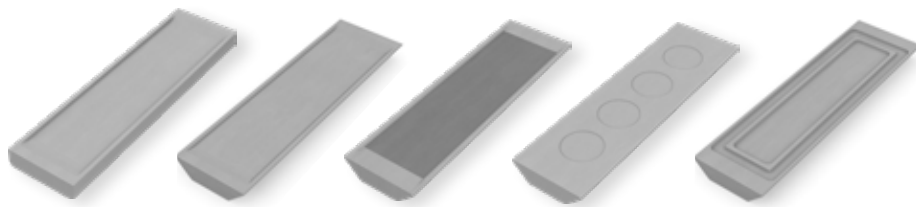
EVAPORATOR BOATS

Evaporator Boats

TECHNICAL DATA

GENERAL PROPERTIES

- Wide range of surface treatments to optimize evaporation rates
- Consistent mechanical and thermal stability providing long service life
- Multiple resistivity levels to match your power requirements
- Energy saving trapezoidal design available



Rectangular

T-VAP™

T-VAP™ Plus

T-VAP™ Select

T-VAP™ MAX

APPLICATIONS

- Resistance-heated boats or crucibles are used in vacuum chambers at ~1500–1650°C (2732–3002°F) to evaporate various metals, including aluminum (Al), copper (Cu), tin* (Sn), and silver* (Ag)
- Metalized film, paper, capacitor films, decorative applications, electronic industries and textiles

* with available C-Power coating

PHYSICAL PROPERTIES

Properties	Unit	2-comp	3-comp	4-comp
Composition	—	BN/TiB2	BN/TiB2/AlN	BN/TiB2/AlN/WC
Density	—	2.86	3.01	3.20
Specific Electrical Resistivity (1600°C)	$\mu\Omega\text{m}^*\text{cm}(\text{moc})$	1000-4000	1000-4000	1000-4000
Thermal Conductivity (20/1200°C)	W/mK	115/40	110/35	130/41
Thermal Expansion (20-1500°C)	K^{-1}	9×10^{-6}	10×10^{-6}	6.4×10^{-6}
Flexural Strength (20/1500°C)	MPa	110/30	115/30	110/85

Note: This data shows typical values and does not represent a specification.

ELECTRICAL RESISTIVITY

Specific Electrical Hot Resistivity $\rho(\text{rho})$ at 1600°C

Hot Resistivity Group	$\rho[\mu\Omega\text{m}^*\text{cm}]$ or [moc]
1	800 – 1200
2	1200 – 1600
3	1600 – 2000
4	2000 – 2400
5	2400 – 2800
6	2800 – 3200
7	3200 – 3600
8	3600 – 4000

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Sales Offices

Americas
Tel: 800 458 3608
americas.sintec@kennametal.com

United Kingdom (UK)
Tel: +44 (0)1633 63 65 00
emea.sintec@kennametal.com

Europe/Middle East/Africa
Tel: +49 (0)8861 2308 0
emea.sintec@kennametal.com

Asia Pacific
Tel: 852 2572 8991
ap.sintec@kennametal.com

China
Tel: +86 21 3718 0518
ap.sintec@kennametal.com



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