HMT
The Hard Materials Experts

Evaporation Boats

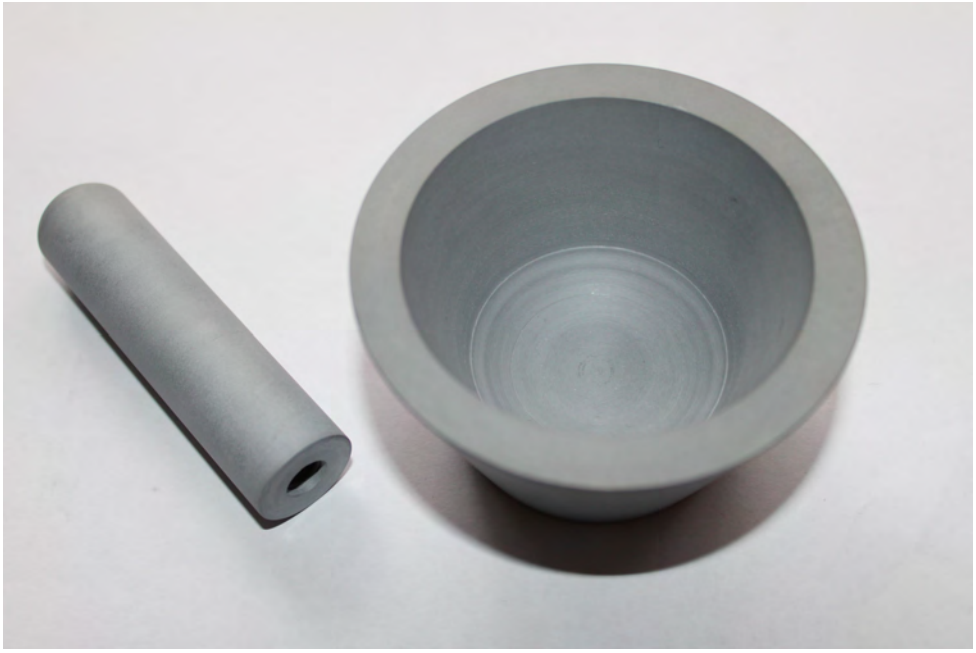
HMT provides innovative, performant and economical evaporation boats for packaging and capacitor film metallizing as well as specialty applications. HMT evaporation boats are characteristic of high evaporation rates and easy operation while reducing the total metallizing cost.

HMT manufactures 3-component evaporation boats from boron nitride (BN), titanium diboride (TiB_2) and aluminium nitride (AIN). Due to their superior initial wetting behaviour, HMT evaporation boats allow extremely easy handling while being compatible with all vacuum coaters in operation at an evaporation rate of up to 0.35g/(min*cm2).That perfectly fits all metallizing processes while guaranteeing easiest control of operational parameters.

HMT provides boats for all customized and special metallizing purposes. Based on cutting edge materials and specific designs developed by our metallizing experts, our boats, made custom-tailored for your specific needs including resistivities, optical densities/evaporation rates and speeds, serve as the ideal solution for metallic yarn, OLED substrates, antistatic and solar films metallizing.

With a unique design free of cavity, HMT's specially designed evaporation boats reach highest wetting ratios on their functional surfaces, so become the most economical product in our range through drastically reducing the direct metallizing cost and subsequent recycling charges.

HMT also produce various customized parts such as crucibles and sleeves.



Resistivity (normal temperature)	300 - 2000μΩcm
Resistivity (operating temperature)	1200 - 4800μΩcm
Evaporation rate （1450-1550℃）	0.25-0.35g/min·cm^2
Operating temperature	≤ 1850℃
Heat conductivity (normal temperature 1450℃)	50-60W/m·K
Coefficient of thermal expansion（1450℃）	5·10^{-6}K
Density	3.08-3.10g/cm^3

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