

Anti-Flame Propagation Agent (AFPA)

—anti-fire/anti-heat coating—

A breakthrough in nanotechnology

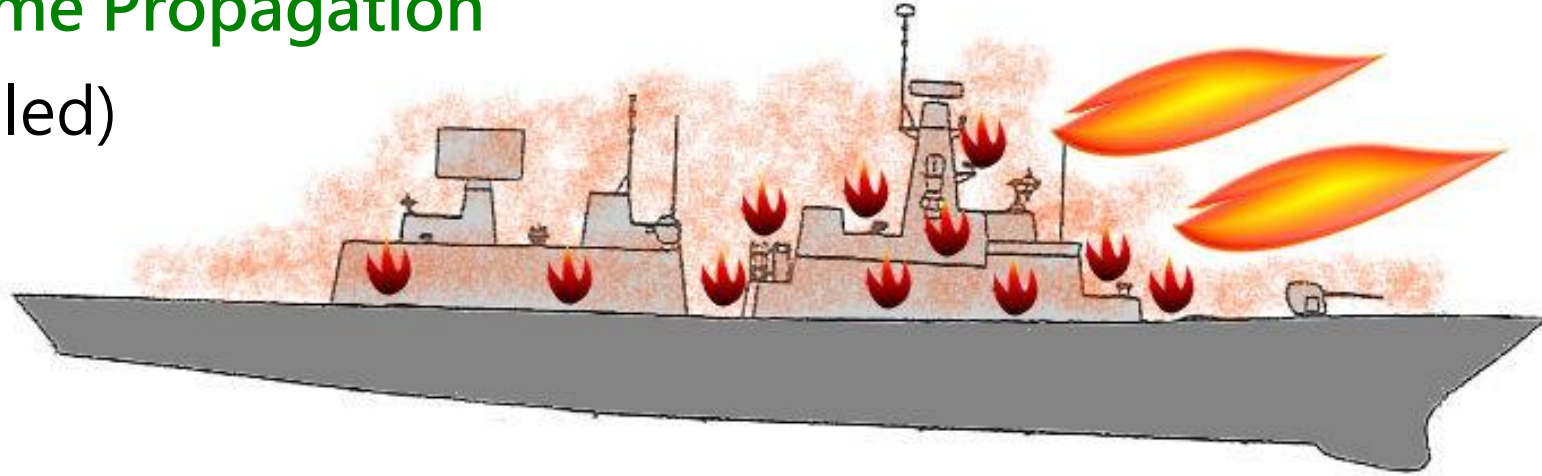
(beyond the conventional phosphorus or aluminum hydroxide “fire-retardants”)

(and different from “silica aerogel”)

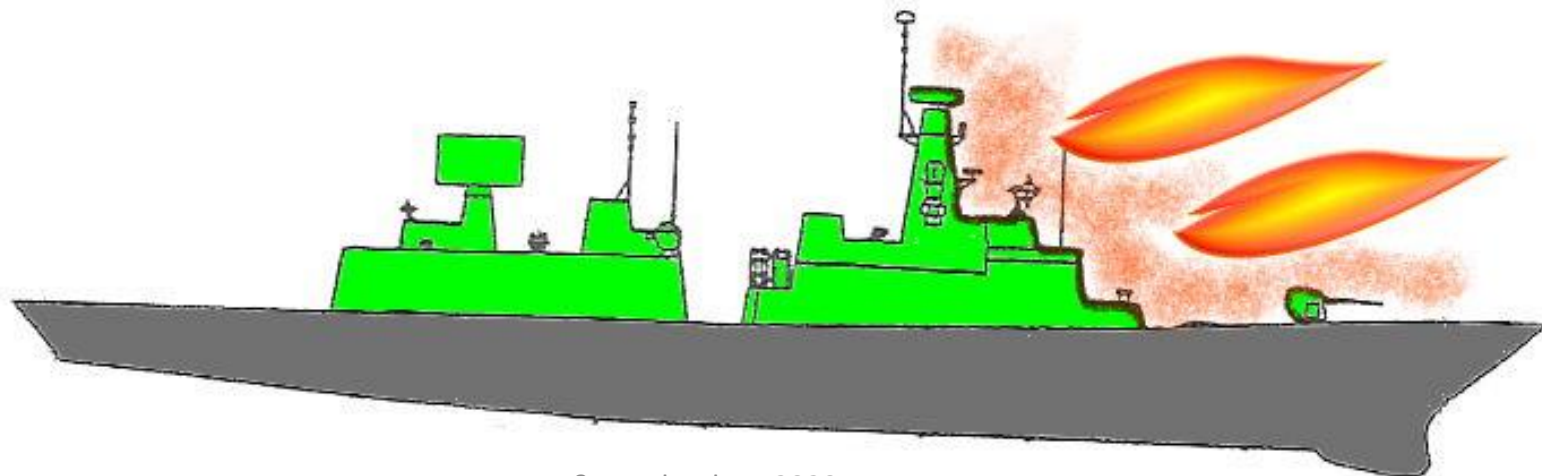
Anti-flame Propagation (conceptual illustration)

(Video): Anti-Flame Propagation

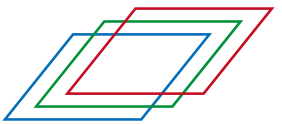
(a) (controlled)



(b) coating (60 micrometer thickness of NSP)



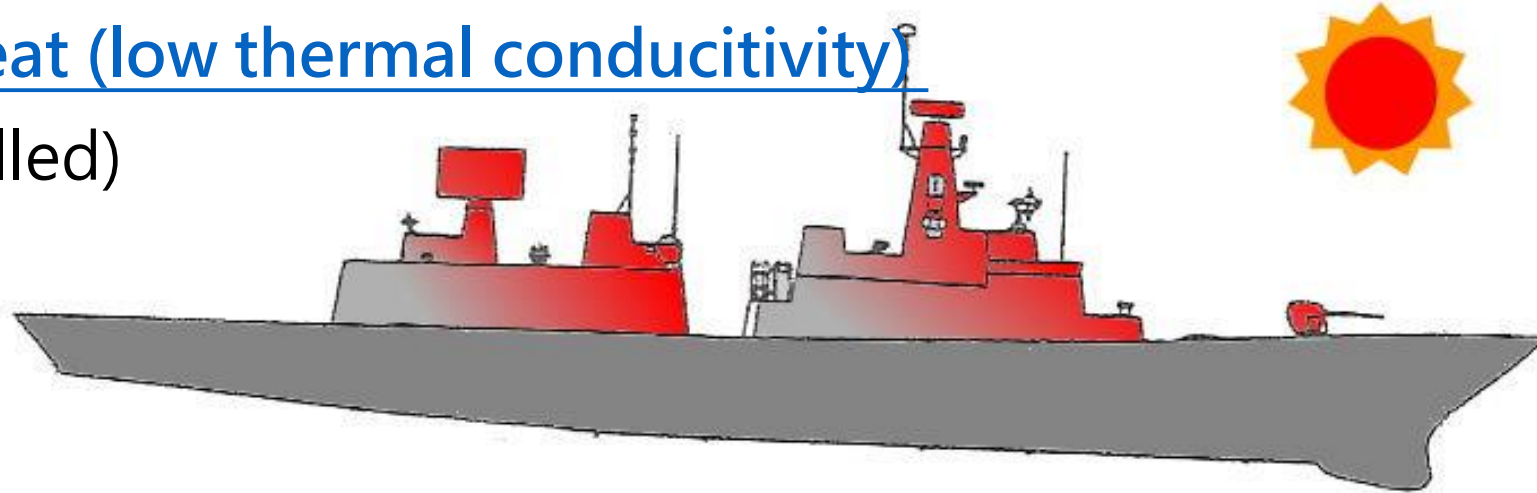
Anti-heat Transfer (conceptual illustration)



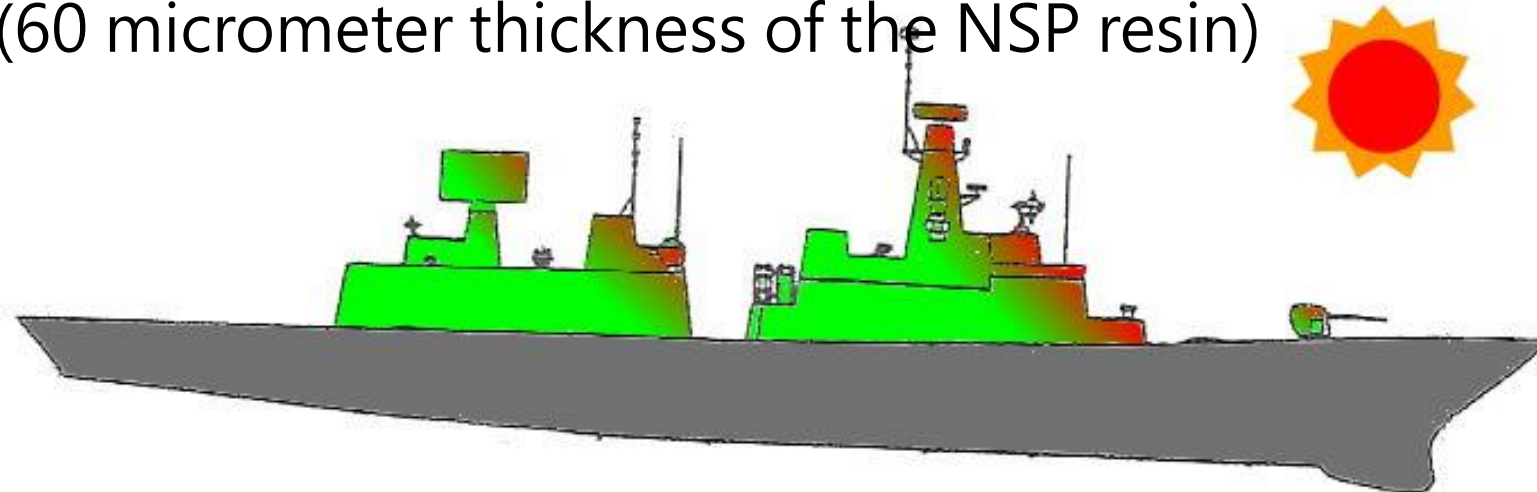
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(Video) Anti-heat (low thermal conductivity)

(a) (controlled)



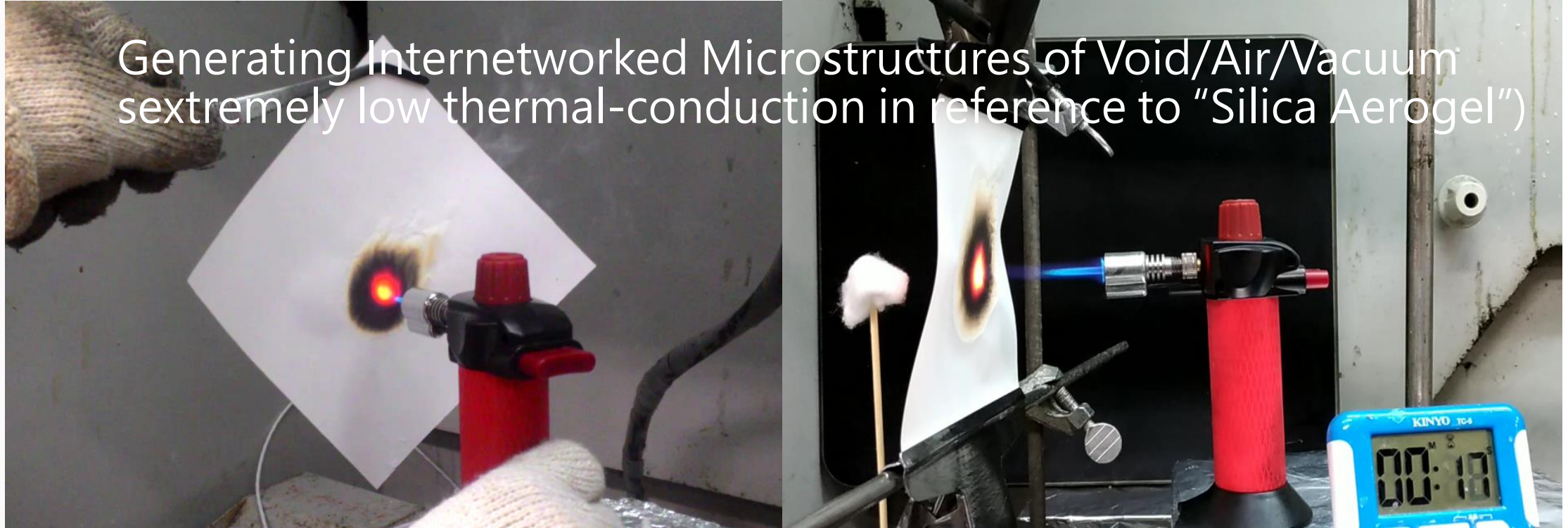
(b) coating (60 micrometer thickness of the NSP resin)



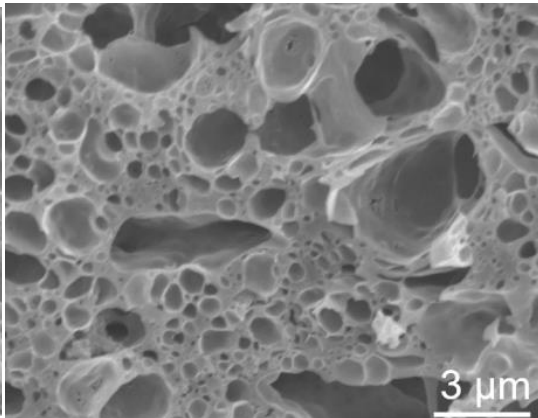
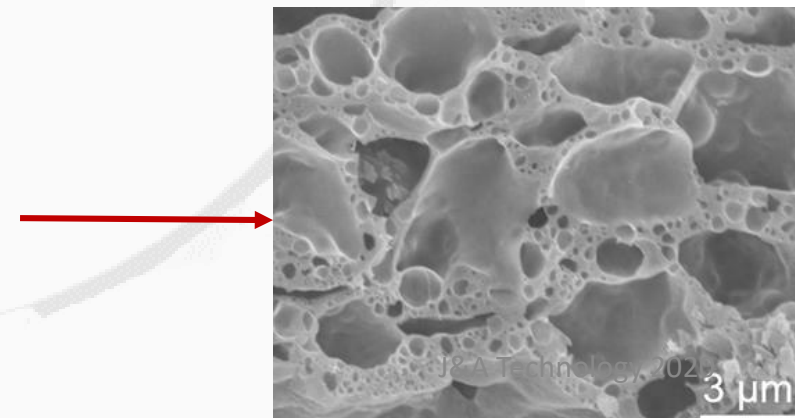
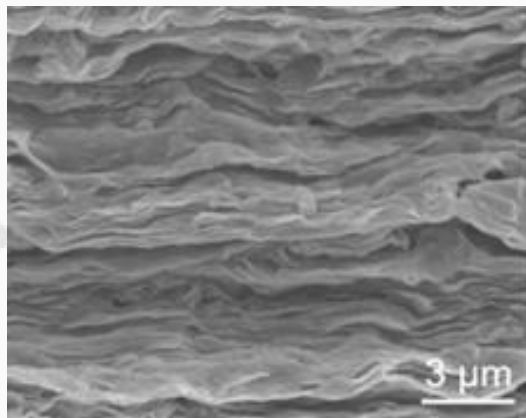
Generating Internetworked Microstructures of Void/Air/Vacuum (extremely low thermal-conduction in reference to "Silica Aerogel")

1,000 °C — 1,300 °C

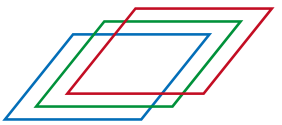
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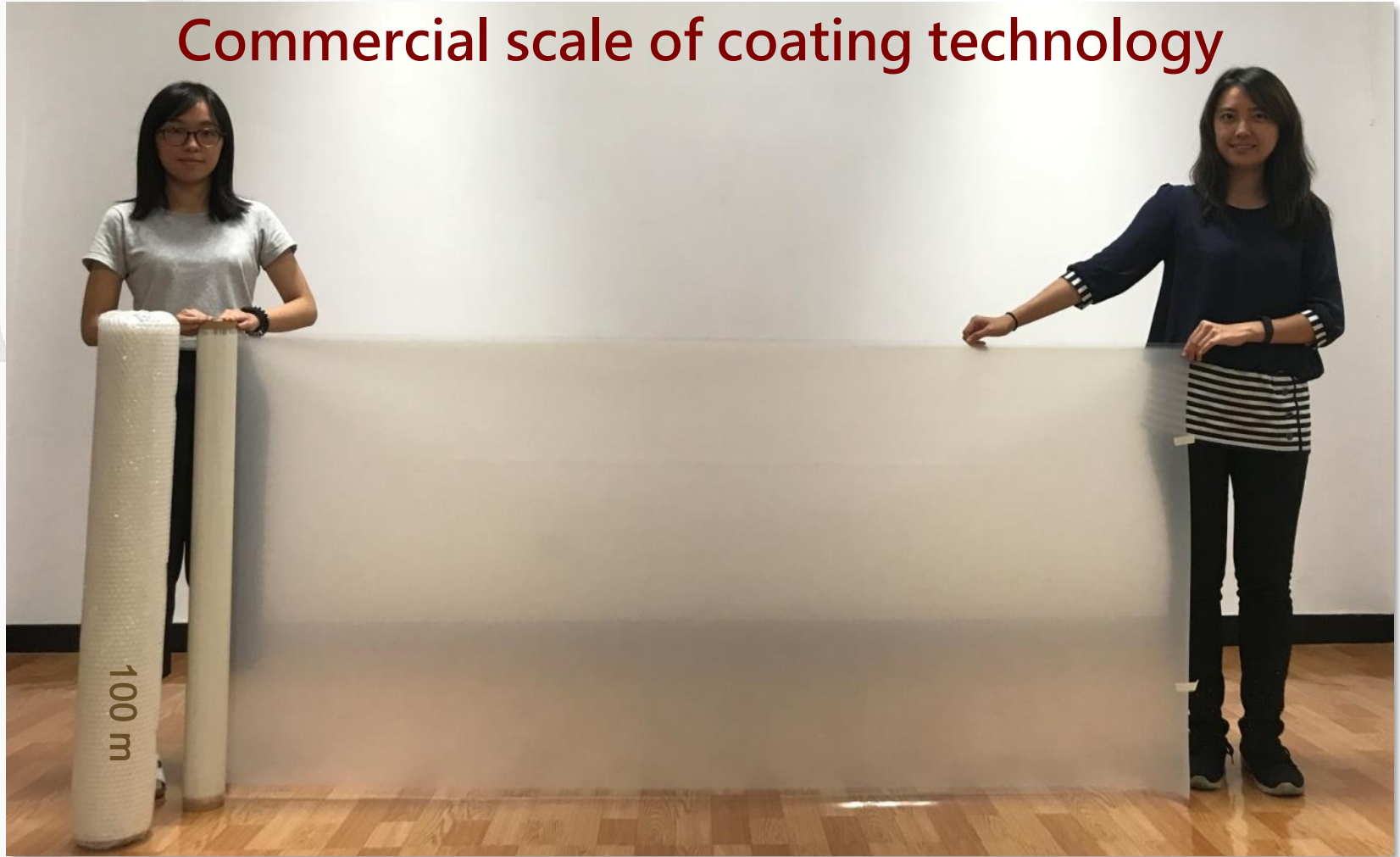
Generating Internetworked Microstructures of Void/Air/Vacuum
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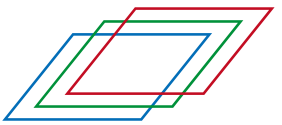


Ref: ASTM D3806
ASTM E662
ASTM E84



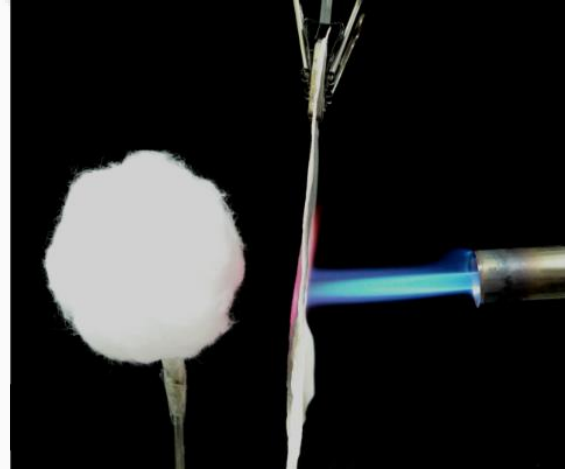
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(Video): Anti-heat (low thermal conductivity)

(Video): Anti-Flame Propagation

Will be provided upon request

Tel. 04-2285-6293

Email: jjlinoffice@gmail.com