

# New coating helps supersonic aircraft withstand temperatures up to 3000 degrees Celsius

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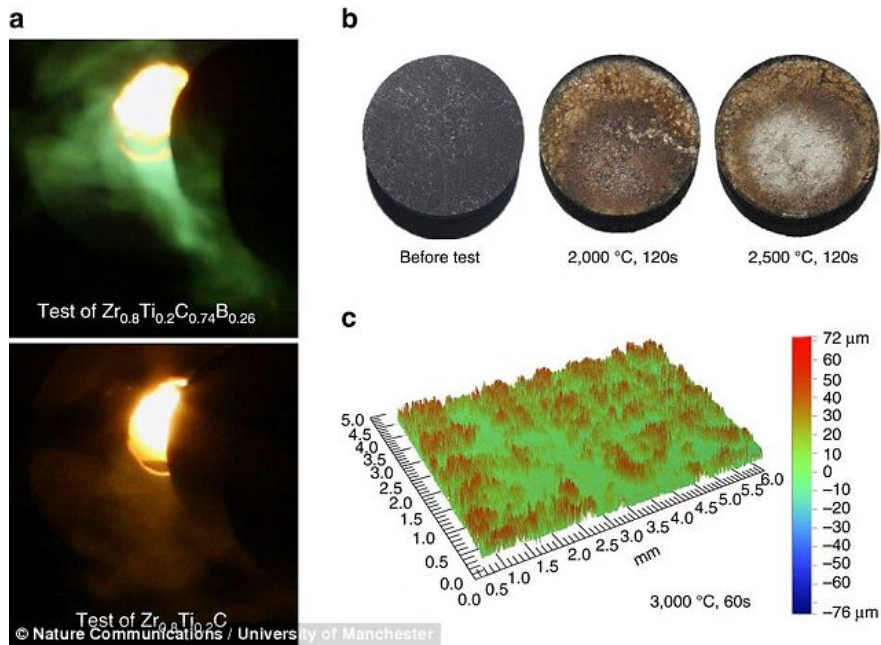
1. Discovered a new form of carbon, stronger than metal and more resilient than rubber
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British and Chinese scientists have created a new generation of materials. It is a type of porcelain used to wrap the aircraft cover, helping it withstand temperatures up to 3000 degrees C.

One of the reasons for supersonic aircraft not being used as a passenger transport vehicle is high temperatures when flying at faster speeds than sound. When flying at Mach 5 (6,200 km / h, 5 times the speed of sound), due to friction with the air, the fuselage temperature will reach from 2000 to 3000 degrees C. Currently, super ceramic Most durable (UHTCs) can only stand 2000 degrees Celsius.

Scientists have changed and optimized production techniques, created a carbide coating - new durable ceramic that has a unique structure, effectively counteract oxidation.



New carbide coating - new durable ceramic.

With newly created ultra-durable materials, supersonic planes can comfortably accelerate without worrying about rising temperatures. A generation of supersonic speed aircraft will come true.

The problem of temperature has been solved, other challenging issues such as wing protection, engine, . of supersonic aircraft will continue to be studied by scientists.

Hopefully in the future, supersonic aircraft will be widely used, creating a leap in travel time. At that time, a flight from Vietnam to the US shortened to only a few hours.

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