CONCLUSION

-Estimation of heat fluxes and surface temperature values ~~got~~attained by space~~craft~~ vehicles ~~at the time of~~during ~~the~~ atmospheric reentry is essential for a fail-safe reentry ~~without any mechanical and physical issue. So~~, Therefore, we evaluated the ~~materials'~~ emissivity and catalytic efficiency of the materials used in aerospace applications. ~~To~~ We aimed to design and ~~then~~ utilize materials having high emissivity and low ~~catalycity~~ catalytic efficiency ~~was our aim~~. ~~In t~~This ~~paper~~study~~, we have put across~~ discusses the measurement of hemispherical emissivity and atomic recombination coefficients of ~~carbon fibre reinforced silicon carbide fusion samples.~~ C/SiC composites that can be applied to the TPS of ~~spacecraft vehicles can use these samples in application~~spacecrafts.

At~~-~~ the MEDIASE ~~facilities~~facility, we tested the C/SiC ~~sample~~ samples at~~temperature range~~ 950–1900 K and both ~~at~~ 4 Pa and 200 Pa; the samples ~~presents somewhat~~exhibited relatively high emissivity values of ~~roughly speaking~~ approximately 0.7. This result ~~shows~~confirms that the ~~oxide~~ glassy oxide layer ~~greatly~~ determines the ~~radiactive behaviour~~radiative behavior of SiC-coated C/SiCs. ~~Oppositely~~In contrast, in the MESOX facility, the catalytic~~ity~~ measurements demonstrated a low oxygen recombination coefficient at high temperature (~0.07 at 1800 K). The ~~test~~tests have also demonstrated ~~also~~ strong dependence of the recombination coefficient on surface morphology, which ~~only~~ varies only slightly among samples because of ~~manufacture's troubles.~~ manufacturing concerns. Whereas samples from the same production batch ~~has~~have shown different recombination coefficient values, the general ~~catalycity~~ catalytic trend remains the same. This ~~condition makes it possible for~~characteristic enables evaluation of the activation energy of atomic oxygen recombination ~~activation energy, i.e.~~ (~30 KJ/mol).

Our results substantiate the suitability of a C/Sic application ~~suitability~~ in ~~the~~ hot structures for ~~the~~ reentry vehicles ~~reentering again in the atmosphere is made a solid case by the results of our paper. .~~. However,

Comment [A1]: In academic writing, information is presented with accuracy and conciseness. Formal language is a hallmark of academic English. One way to ensure conciseness in expression is converting phrasal verbs to formal words. In this instance, "got" is replaced with "attained."

Comment [A2]: The compound modifier is hyphenated when it appears before a noun in order to prevent any ambiguity.

Comment [A3]: Using the correct technical word aids technical clarity to the text, further enhancing the clarity.

Comment [A4]: "Glassy" is an adjective that modifies the noun "oxide layer." This text was rearranged for grammatical accuracy.

Comment [A5]: An introductory phase should be separated from the main clause using a comma.

Comment [A6]: Plural nouns do not take an article. Because "hot sructures" is plural, "the" is not required here.

SAMPLE

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Sstrategic manufacturing process control for C/SiC manufacturingproduction to obtain specific type of morphology of samples would further ascertain defined emissivity value and catalycity catalytic efficiencyvalue.

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