

Compistique.

Composites for ballistic protection

Objectives : Study the relevance of Ceramic Matrix Composites for high energy multi-impact ballistic protection



Context

- Aircraft in war zones require highly efficient ballistic protection.
- The current state of the art uses monolithic ceramics (B4C, SiC, Al2O3)
- Each tile is only effective against a single impact
- The defense sector is looking for multi-impact protection

Innovation



Extend the application of CMC developed at IRT to the ballistic protection sector



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Ad Industries



Biblio report

Proposal

- Ad Industries (France) is interested in the development of multi impact protection
- The realization of a pre-study would allow to extend the know-how of the IRT on CMC to another industrial field
- Extensive bibliographic study (1 month)