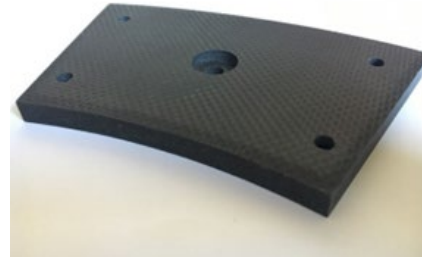




TECHNOLOGY DESCRIPTION

Arceon, a Dutch engineering company, offers ceramic matrix composite materials, combining ceramics and composites. These have unique properties: low density, high temperature resistance, low CTE and high strength. It is applied in among others rocket nozzles, precision telescope tubes and thermal protection systems. It can often replace heavy, metal, alternatives, increasing performance and decreasing weight. Arceon is open to costumers, as well as collaborative and research projects.



INNOVATIVE ASPECTS

- Low density (1.9-2.1 g/cm³).
- High temperature resistance (stable up to at least 1600 °C).
- Low thermal expansion (-1 – 2.5 10⁻⁶ K⁻¹) and high strength (flexural strength up to 300 MPa).
- High-temperature stability and scratch resistance.
- Density is 25% lighter than aluminum.



TECHNOLOGY READINESS

TRL 5 (2023)

COUNTRY OF ORIGIN

The Netherlands

LATEST UPDATE

11/2023

SPACE
FOR BUSINESS
BUSINESS
FOR SPACE

TECH CARD

Link/QR code to contact page new broker website

TAGS

#thermal protection

#lightweight

#ceramic

#ablation resitant

#wear

#nozzle

APPLICATION AREAS

Aeronautics

Automotive

Refractory industry

Energy