



## ARCEON - MATERIALS FOR EXTREMES

*“Advancing humanity by empowering radical innovations with materials designed for extremes.”*



### About us

**Arceon** is an engineering company, focused on the research, development, and application of ceramic matrix composites. These materials are a combination of ceramics and composites, utilizing the advantages of both. The ceramic matrix provides high temperature performance and ablative resistance, while the reinforcing fibers make the material non-brittle and damage tolerant. Arceon uses carbon fibers in a silicon carbide matrix, which results in attractive material properties: low density, high temperature resistance up to at least 1600 °C, low CTE and high strength. By using different fibers and additives, many of the properties can be tailored to specific applications.

### Solutions

The unique and tailorable material properties lead to a range of different applications. Places where Arceon's material is being implemented are:

- Light-weight, ablation resistant rocket nozzles
- Low CTE, high precision, telescope tube
- Ultra-high temperature resistance thermal protection systems, such as re-entry tiles or hypersonic leading edges
- Nuclear fusion research reactors
- High-wear components in the refractory industry
- Battery thermal protection
- High temperature bearings

### Company highlights

- Arceon has a patented joining technique to create complex parts from simple shapes.
- The material is currently being prepared for launch to the ISS for an in-space aging experiment.
- Our products are made with our ever-growing, in-house manufacturing capabilities.

### Company facts

- Founded in 2018
- 4 Fte
- Based in Delft
- First CMC manufacturer in the Netherlands
- In-House Manufacturing Capabilities
- Graduate of ESA BIC



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### Connect

