



NORCOAT® 4000

THERMAL PROTECTION PRODUCT LINE

- > NORCOAT® LIÈGE
- > **NORCOAT® 4000**
- > NORCOAT® 4011
- > NORCOAT® 5011
- > PROSIAL® 2000
- > ASTERM®
- > NORCOAT® FLEX
- > NAXECO® PYC
- > NAXECO® RESIN

SILICON BASED - PLATE OR 3D COMPLEX PARTS

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ArianeGroup has been developing and manufacturing thermal protection for space applications for over 40 years and is recognized as an European leader. Our range of manufacturing processes allows many designs to protect the structures: bonding, moulding or spraying.

CHARACTERISTICS

Density	Up to 0.75
Thermal Conductivity at 50°C	0.24 W·m ⁻¹ ·K ⁻¹
Specific heat at 50°C	1.30 kJ·kg ⁻¹ ·K ⁻¹
Permittivity at 2 Ghz	2.3
Tensile stress	2 MPa
Elongation	7%
Thickness	1 to 50 mm
Heat flux	1 MW/m ² 1500°C

NOTE:

Data in this document is for information purposes only.

Our product:

- **Moldable silicon** based ablative thermal protection
- **Direct molding** onto the part to be protected available
- **Radio transparency:** suitable for antennas
- **Composite** and **Metallic** substrates
- **1000°C** material



ADVANTAGES

Excellent heat performances

Material adaptability

- Thin-skin is ideal for confined spaces
- Lightweight materials

Manufacturing process adaptability

- May be bonded or attached mechanically
- Precisely contours all shapes
- Answer to a complex manufacturing demand

Material stability

- Mechanical stability: materials paired with all support types
- Stability over time: 20-year life cycle for temperatures of between -50°C and 200°C

Fully adapted solutions

- Need analysis
- Material definition and manufacturing
- Technical product support
- Durable supply with adaptation to new standards

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