



NORCOAT® 5011

THERMAL PROTECTION PRODUCT LINE

- > NORCOAT® LIÈGE
- > NORCOAT® 4000
- > NORCOAT® 4011

- > **NORCOAT® 5011**
- > PROSIAL® 2000
- > ASTERM®

- > NORCOAT® FLEX
- > NAXECO® PYC
- > NAXECO® RESIN

NEW SILICON BASED CUSTOMIZABLE THERMAL PROTECTION

NORCOAT[®] 5011

NEW SILICON BASED CUSTOMIZABLE THERMAL PROTECTION

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	1.2-1.3
Thermal Conductivity at 150°C	0.21 W·m ⁻¹ ·K ⁻¹
Specific heat at 150°C	1.60 kJ·kg ⁻¹ ·K ⁻¹
Elongation	Up to 350%
Thickness	1 to 20 mm
Heat flux	1 MW/m ²

NOTE:

Data in this document is for information purposes only.

Our product:

- **Flexible Silicon** based molded ablative thermal protection
- **Reinforced with fabric**
- **Option Direct molding** onto the part to be protected
- **Plates or 3D** complex parts
- Actuators, movable parts, wiring, tubes
- Can be **coloured** (e.g. Yellow for pyrotechnics systems protection)
- **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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