

DRACONITE

BIOENGINEERED. HEAT-STRENGTHENED.
EXTREME THERMAL PROTECTION.

4 YEARS. 64 FORMULATIONS. 110+ PHYSICAL TESTS.

2 × UK PATENTS PENDING

CHEAP, ACCESSIBLE FEEDSTOCKS.

INVENTED IN A SCOTTISH SHED.

BIODEGRADES AFTER THREAT.



THREAT FACE: 2,000°C+. PROTECTED
FACE: NEVER MORE THAN 60°C
ABOVE AMBIENT.



METEORITE BIOMIMICRY.
STRENGTHENS WITH HEAT.



CONFORMABLE. CUTS WITH
SCISSORS. <50 MM BEND RADIUS.

STRONG

>350 MPa

COMPRESSIVE
STRENGTH, POST-
VITRIFICATION

PROTECTIVE

<60°C

COLD FACE ABOVE
AMBIENT. HOT FACE
2,000°C+.

INSULATIVE

0.15-0.35

W/m-K POST-
VITRIFICATION. IN-
HOUSE RANGE.

RF-TRANSPARENT

<0.5 dB

X/Ka-BAND TARGET
LOSS. VALIDATING.

CRYOGENIC
FLEXIBILITY

-196°C

IMMERSION, THEN 180°
FLEX. NO MICRO-
CRACKING.

Protection strengthens with heat. Thermal threat becomes **tactical advantage**.

PLATFORM AGNOSTIC: HOTTER. FASTER. LONGER. CHEAPER.

OBLITERATES THE SWaP-C² BURDEN OF LEGACY TPS.

LAND

Battery thermal runaway ·
wildfire · passive fire · critical
infrastructure · industrial heat

SEA

Marine batteries · naval fire
protection · offshore energy ·
charging/storage

AIR

Aviation · drones · hypersonics
· directed energy · thermal
bottlenecks

SPACE

Re-entry · satellites · spacecraft
· EVA / spacesuits

TRACTION RHI MAGNESITA (refractory) · UCL / FARADAY INSTITUTION (thermal runaway) · STARHELIX (spacesuits) · INTERSTELLAR
SPACE TECHNOLOGIES (orbital re-entry) · DOWN-SELECTED FOR 2 MINISTRY OF DEFENCE COMPETITIONS: SATELLITE AND DRONE
PROTECTION (judging ongoing)

VALIDATION EUROPEAN SPACE AGENCY BUSINESS INCUBATION CENTRE COHORT (2026) · UK SPACE AGENCY ACCELERATOR
(2026) · EARTHSHOT PRIZE NOMINEE (2025) · KPMG BLACK ENTREPRENEUR OF THE YEAR (2026, judging ongoing) · SCOTTISH EDGE
REGIONAL WINNER (2026) · UNDAUNTED CLIMATE-TECH ACCELERATOR (2025/26) · £330K+ NON-DILUTIVE FUNDING (INNOVATE UK,
SCOTTISH ENTERPRISE)

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