



# Nano -Tech

Nano Carbon Technologies

A large commercial airplane is shown from a low angle on a runway at night. The runway is illuminated with red and white lights, and the background shows airport buildings and other aircraft. The sky is dark with some light clouds.

PIONEERING ADVANCED MATERIALS

Nano-Tech  
develops and produces



**CERTIFICATIONS:**

UNI EN ISO 9001:2015

- └ Requirements for a quality management system that meets regulatory compliance and enhances customer satisfaction.



APAVE Certification N. SC 20-4567-1

- └ Requirements regarding a quality management system that follows customer focus, management involvement, and continuous improvement.

# Advanced Composite Materials



Thanks to  
cutting edge

Proprietary  
Formulations

**In-house** production  
of  
composite materials

**2,000 sqm Facility** with

R&D Lab

Mixing Rooms

Hot Melt Line (in clean room)

Cold Room

Prototyping Area



Nano-Tech's materials  
are used to make  
lightweight parts in

# Automotive & Aerospace





Problem

Manufacturers of  
vehicles, aircrafts and  
satellites  
search for

Reduced  
Weight  
&  
High  
Resistance



# SOLUTION



Nano-Tech's  
patented family of  
high temp and  
nano-engineered  
products are

**PATENTS:**

Obtained

IT201700089430A1

US9006355B1

PCT/IB2017/053795

001420824

Requested

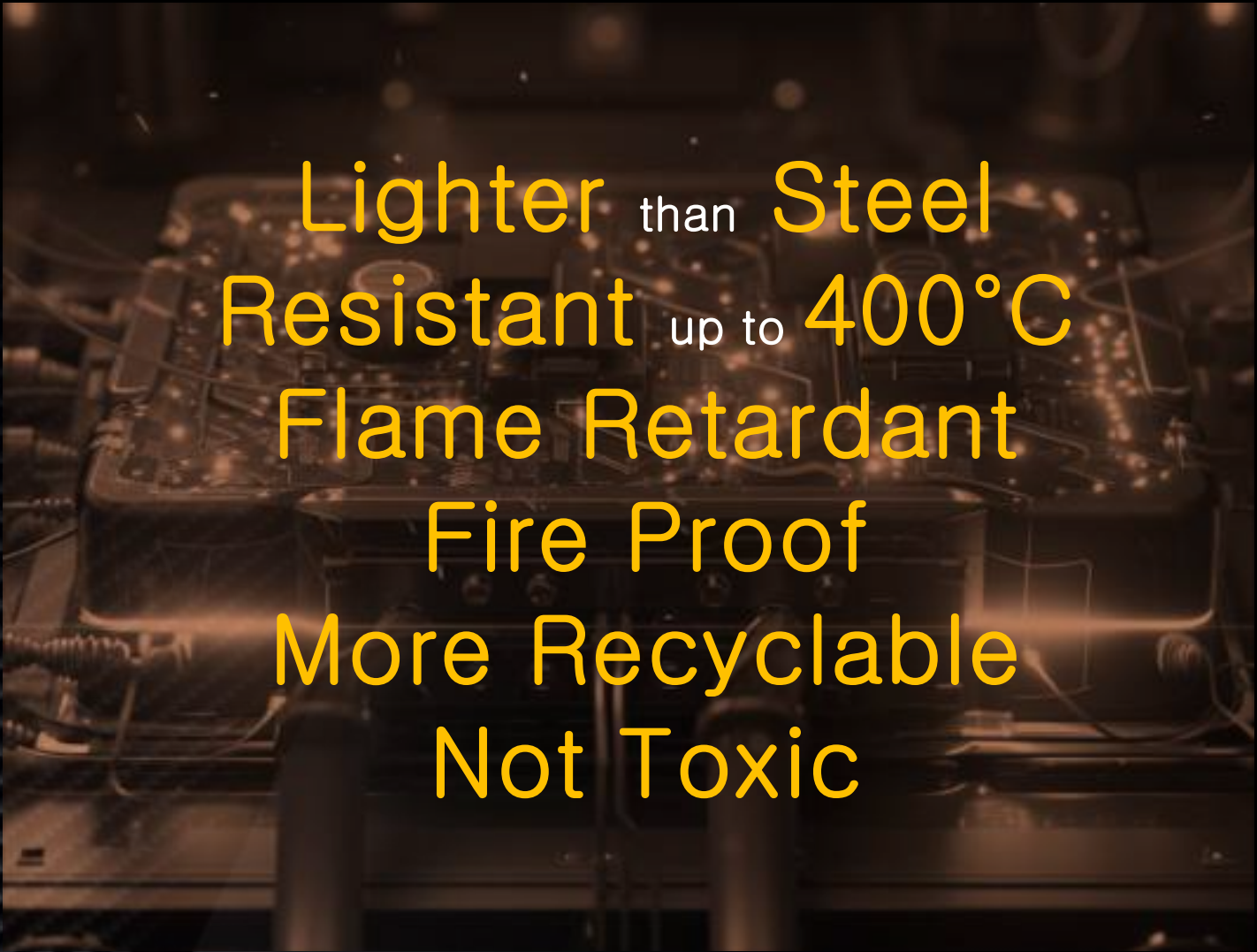
PCT/IB2018/055844

WO2019026036A1



Lighter  
&  
Highly  
Heat  
Resistant

The breakthrough  
**C-Preg 400** family of  
high temp materials are



Lighter than Steel  
Resistant up to 400°C  
Flame Retardant  
Fire Proof  
More Recyclable  
Not Toxic



# C-Preg 400 Technical Data

Inorganic Resin

Flexible Curing (165°C/300°C)

Post Curing (200°C/300°C)

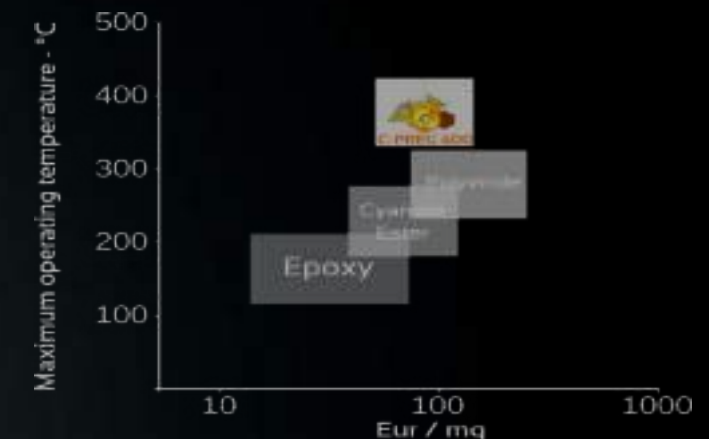
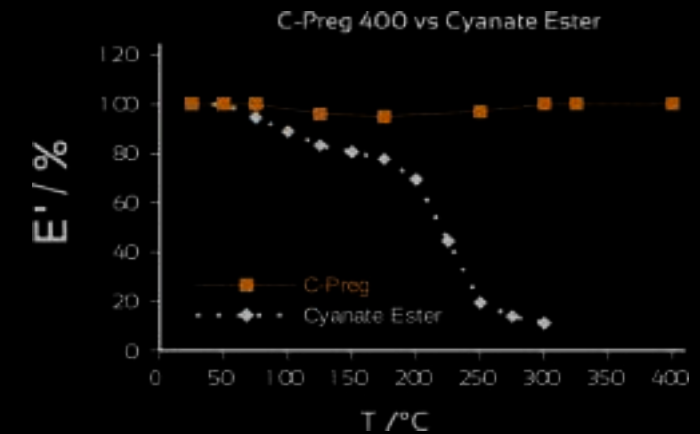
TG up to 400°C

Autoclave/Press Moulding




Medium Tack

Aesthetic Applications

Workability as Epoxy



# C-PREG®400 Ranks High on Key Performances

	 Innovation by Chemistry			C-PREG®400
MECHANICAL STRENGTH	HIGH	HIGH	HIGH	HIGH
THERMAL STABILITY	MEDIUM	MEDIUM	MEDIUM	HIGH
RECYCLABLE	NO	NO	NO	YES
NON-TOXIC	NO	NO	NO	YES
FLAME RETARDANT	MEDIUM	MEDIUM	MEDIUM	HIGH



Nano-Tech's  
high temp technology  
awarded of the EIC  
Accelerator Grant as

Disruptive  
Technology  
for the  
Aerospace  
Industry

The nano-engineered  
family is well represented  
by **NanoLite**



**Lighter** than **Comparable**  
**Composites**  
**Highly Impact Resistant**



# NanoLite Technical Data

Epoxy with Carbon Nano Tubes

TG 125°C

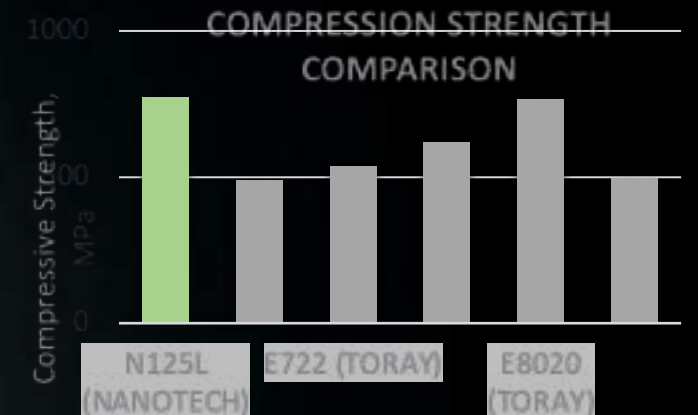
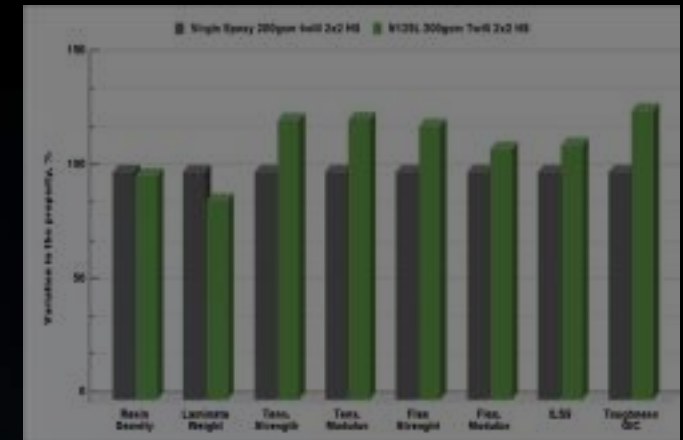
Standard Curing (120°C/150°C)

Autoclave/Press Moulding

High Compressive Performance

High Drape & Tack

Property	Method	Unit	Value CF200T2HS
Tensile Modulus 0°	ASTM 3039	GPa	59
Tensile Strength 0°	ASTM 3039	MPa	794
Flexural Modulus 0°	ASTM D790	GPa	46
Flexural Strength 0°	ASTM D790	MPa	969
Compression Modulus 0°	ASTM D6641	GPa	-
Compression Strength 0°	ASTM D695	MPa	614
Interlaminar Shear Strength	ASTM D2344	MPa	77



# C-PREG®400 and NANOLITE Have Already Applications



F1 cars parts (brake baskets, power unit heatshields etc.)

Supply to 9 F1 teams out of 10



Helicopter engine floor panels

Development with an Italian contractor



Carbon composite drone

Supply to various drone manufacturers



# Selected customers relationships

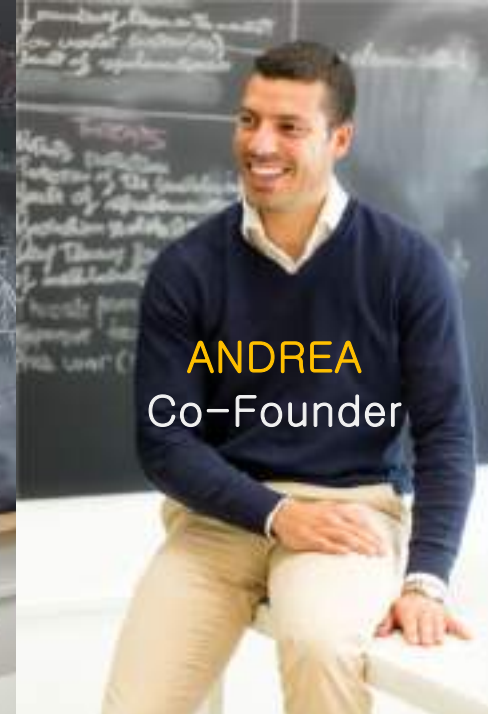




A cross-functional team with  
**50%** of **Women**



**STEFANO**  
 President



**ANDREA**  
 Co-Founder



**GIUSEPPE**  
 CEO / Co-Founder



**PATRICIA**  
 Co-Founder



# THANK YOU

Giuseppe Galimberti  
CEO  
Nano-Tech S.p.A.

M. +39 334 825 4211  
E. [g.galimberti@italnanotech.com](mailto:g.galimberti@italnanotech.com)



**Giuseppe Galimberti**  
Chief Executive Officer at  
Nanotech S.p.A.

