

Your surface optimization partner

Based on a 40 years of experience in surface and treatment

Our techniques give the floor to your ideas

- ✓ Low temperature plasma deposition on materials
 - Metal, ceramic, glass, polymer
 - Powder, build parts, complex shapes
- ✓ Tunable Pre- (degreasing, sandblasting, decoating...) and Post-Treatments (dust-free packing, decoating...)

Strong partnership with UNamur for:

- ✓ Materials and surfaces characterization
 - Hardness, thickness, adhesion ...
 - Direct access to UNamur equipments (XPS, ToF-SIMS, TEM, SEM...)
- ✓ Simulation
 - Access to Virtual Coater™ by UNamur

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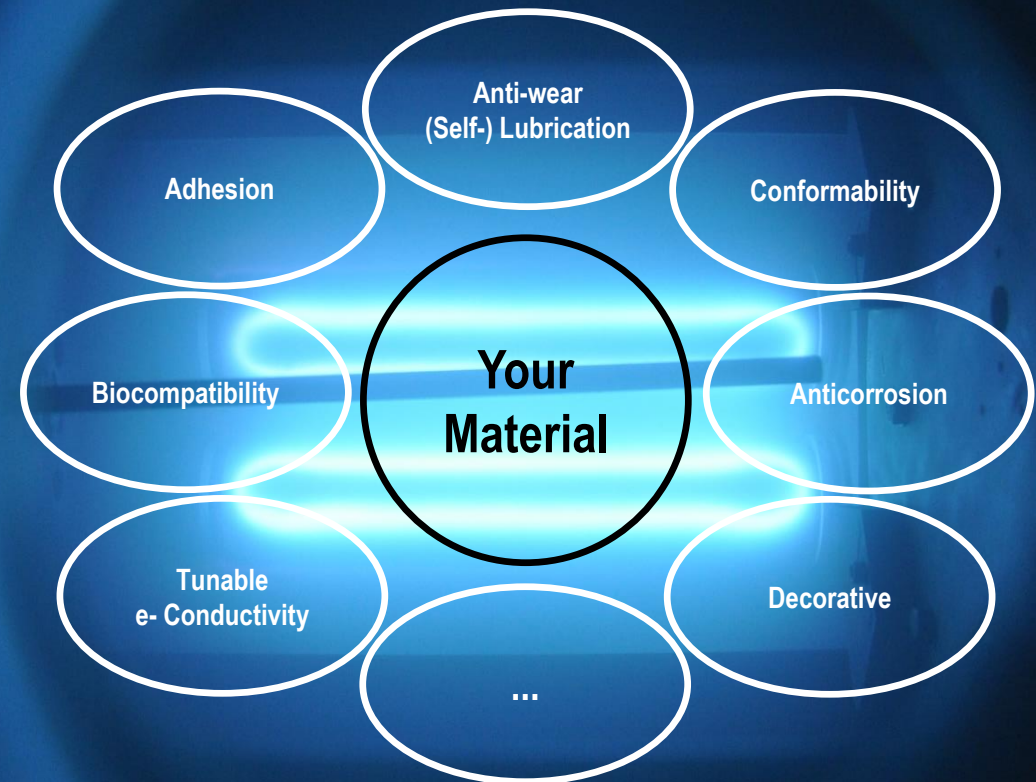
www.incosol4u.com

ICS

Innovative Coating Solutions

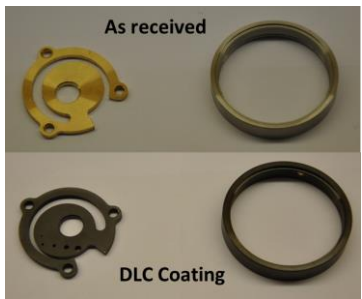
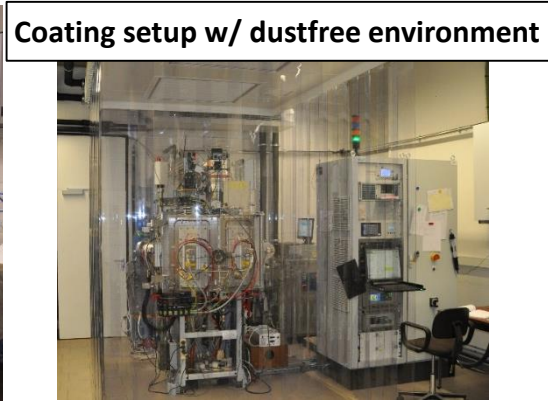
A University of Namur spin-off

Surface optimization techniques to enhance your materials



Greener, Softer, Smarter

Surface Coating



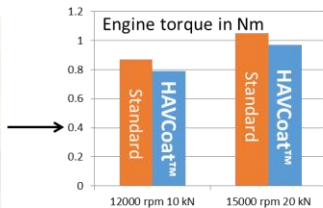
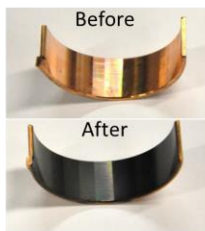
Case Studies : HAVCoat™ – Soft DLC (Diamond-Like Carbon)

Anticorrosion



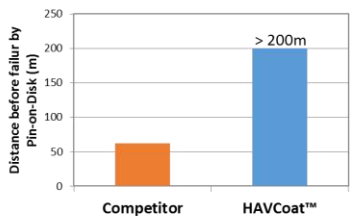
Corrosion resistance after 24hrs salt spray test (ASTM B117 standard)

Competition engine journal bearings



Test on F1 engine bench
9% reduction on the friction torque

Adhesion



Resistance before break under strong mechanical constraint (Pin-On-Disk)

All-gear-differential

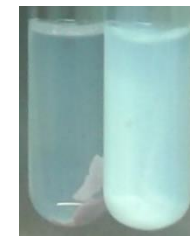


Noise reduction

Powder Functionalization

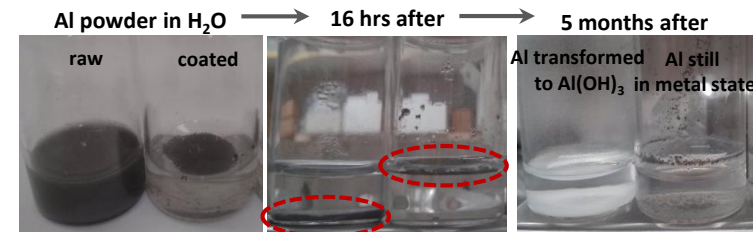
Compatibility

Raw vs. Coated



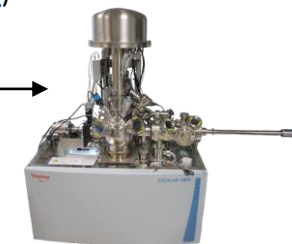
Tuning powder compatibility or affinity/protection with the matrix or solvent without modifying their properties. Gas and monomers possible.

Protection



Characterization

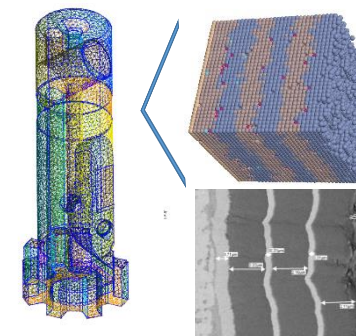
Thanks to the strong partnership with UNamur, composition and performance characterization techniques are available. (siam.unamur.be)



Simulation – Virtual Coater™ by UNamur

Defining the best parameters to achieve customer product specifications.

Real 3D part evidencing real geometry + Local mapping of coating efficiency



Prediction of M/a-C:H sandwiches (density, uniformity, porosity...)