

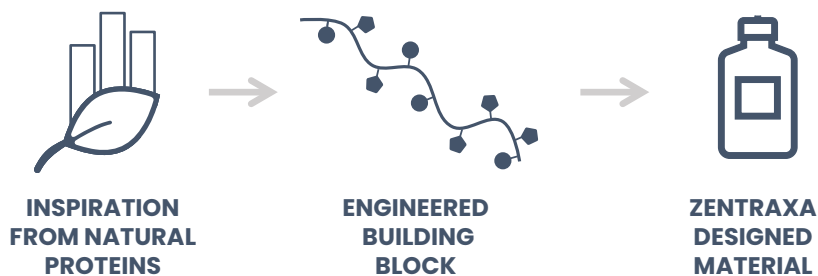
DE-BONDABLE ADHESIVES

Zentraxa's adhesives are lightweight, have excellent optical transmission and gently de-bond leaving components damage free.

BENEFITS OF ZENTRAXA'S TECHNOLOGY:

Inspired by natural systems, Zentraxa's adhesives are precision engineered to meet customer requirements. Our platform allows for simple tuning & optimization, enabling you to work with experts to design a bespoke solution to your problem. Our adhesives offer:

- Excellent optical transmission
- Gentle de-bonding using aqueous de-bonding agent
- Bonding to dissimilar or difficult surfaces
- Demonstrated lack of cytotoxicity, and no irritation of skin
- Sustainable production



WORKING WITH US

- Zentraxa precision engineers high-performance materials inspired by biological systems. We specialise in the design & production of peptide based materials.
- Our process bypasses the limits of conventional peptide synthesis, which can increase production capacity & create more economic manufacturing that is sustainable by design.
- Our biomaterials are industrially robust, offering commercially viable drop-in solutions.
- Our experts will work with you to develop bespoke, IP-protected solutions to meet your needs.
- Our production method allows us to access conventionally difficult chemistry to deliver performance gains.



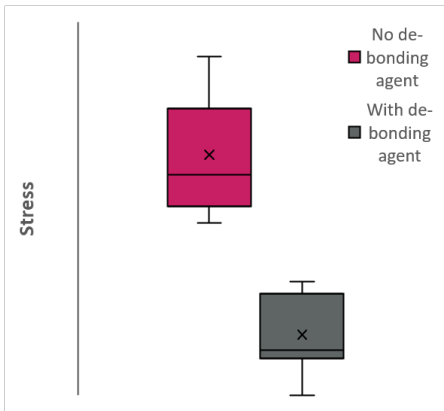
CASE STUDY

Our end user requires an adhesive for temporary in-field adhesion of filters to optical & sensor systems that:

- Requires minimal surface preparation
- Does not damage surfaces / components on removal
- Does not interfere with optical or sensory systems
- Is stable to the environment

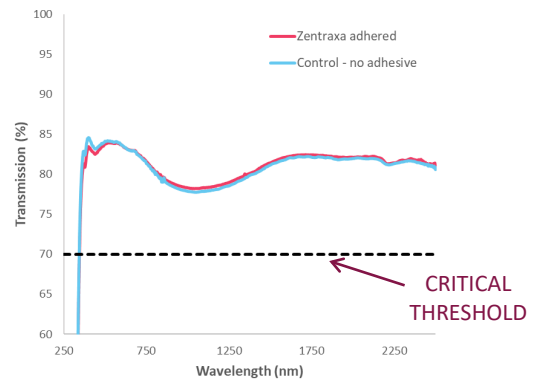
DEBONDING

Effective debonding was demonstrated through tensile & real-time testing (reduced adhesion & time to de-bond demonstrated)



OPTICAL TESTING

When applied to optics, our adhesive does not absorb additional visible or UV wavelength light, does not induce haze scattering, and inflicts no damage to optics (as shown by optical microscopy)

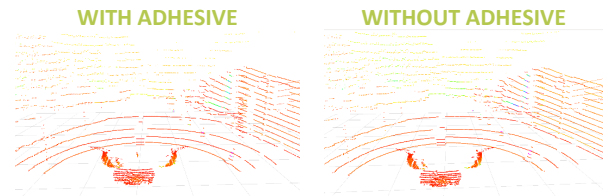
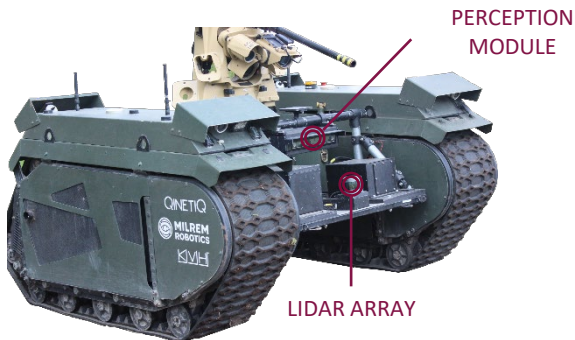


Data supplied by QinetiQ

QINETIQ

TITAN UNMANNED GROUND VEHICLE

We demonstrated our de-bondable adhesive by attaching and removing filters to the perception module and LIDAR array on a Titan unmanned ground vehicle.



Data from the LIDAR array with and without adhesive, demonstrating no change in performance.

Data supplied by QinetiQ

Our adhesive delivered:

- No impact on optical system performance
- Simple debonding, no residue or damage to components
- Adhesion to a variety of surfaces
- Thermal tolerance (-80 °C to 150 °C)