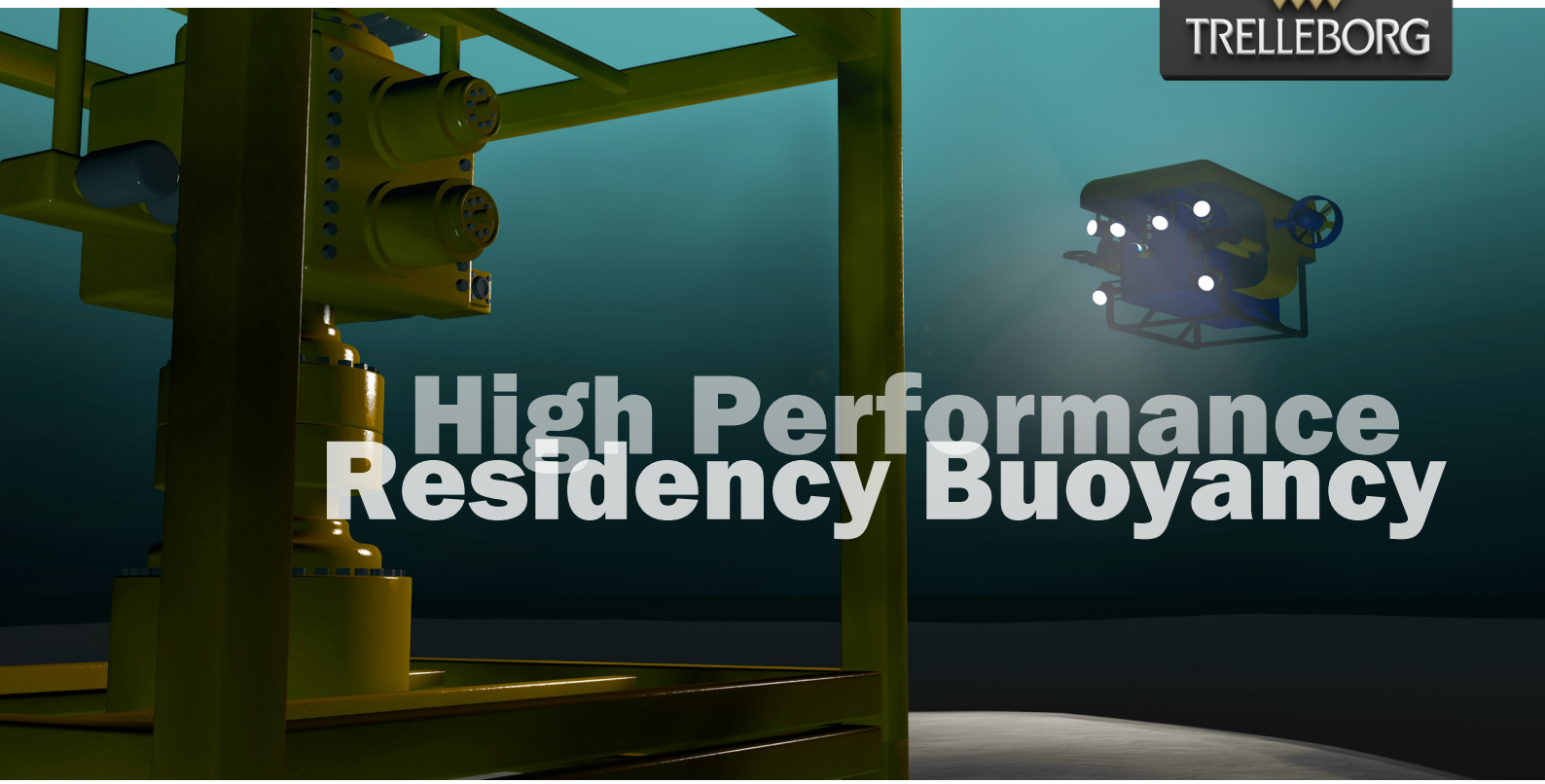

High Performance Residency Buoyancy

Residency Buoyancy

Trelleborg manufactures a range of ultra-high performance, low density syntactic foams, specifically for ROV and AUV residency vehicle buoyancy applications. These composite foams provide very low densities by incorporating the highest specification hollow glass microspheres and combining with a rigid, high strength resin system.

Engineered to withstand long term immersion, our residency buoyancy solutions can withstand the constant hydrostatic conditions created by the challenge of residency applications. The unique polymer syntactic matrix provides superior resistance to compression ensuring consistent performance and stability.

Manufactured by Trelleborg Applied Technologies in the UK, our in-house R&D team can engineer solutions to meet your individual project requirements.

Key applications:

- Resident Remotely Operated Vehicles (RROV)
- Resident Autonomous Underwater Vehicles (RAUV)

Features and benefits:

- Qualified for long term immersion up to 2 years
- Unique polymer syntactic matrix
- Made from high grade Hollow Glass Microspheres
- Block form or custom molded shapes available
- Selection of depths available
- Used to prepare large buoyancy modules

Materials:

TG2000R

- Max Op Depth 2000 MSW
- Density 410 kg/m3
- Max Op Pressure 2904 psi
- Hydrostatic Crush Pressure 6000 psi
- Service life at Max Op Depth 2 years
- Water absorption <2% *

*At service life

TG3000R

- Max Op Depth 3000 MSW
- Density 468 kg/m3
- Max Op Pressure 4356 psi
- Hydrostatic Crush Pressure 9000 psi
- Service life at Max Op Depth 2 years
- Water absorption <2% *

*At service life

For more bespoke depths please contact us.

Contact Us

Trelleborg Applied Technologies delivers innovative and reliable solutions, materials and smart systems that maximizes performance for our customers. Our vast range of specialized,customizable materials ensure peace of mind at every stage of your project. With reliable and efficient project management and manufacturing we endeavour to take performance to new levels by achieving your goals safely, on time and within scope.

Worldwide: +44 1706 716610

Email: appliedtechnologies@trelleborg.com