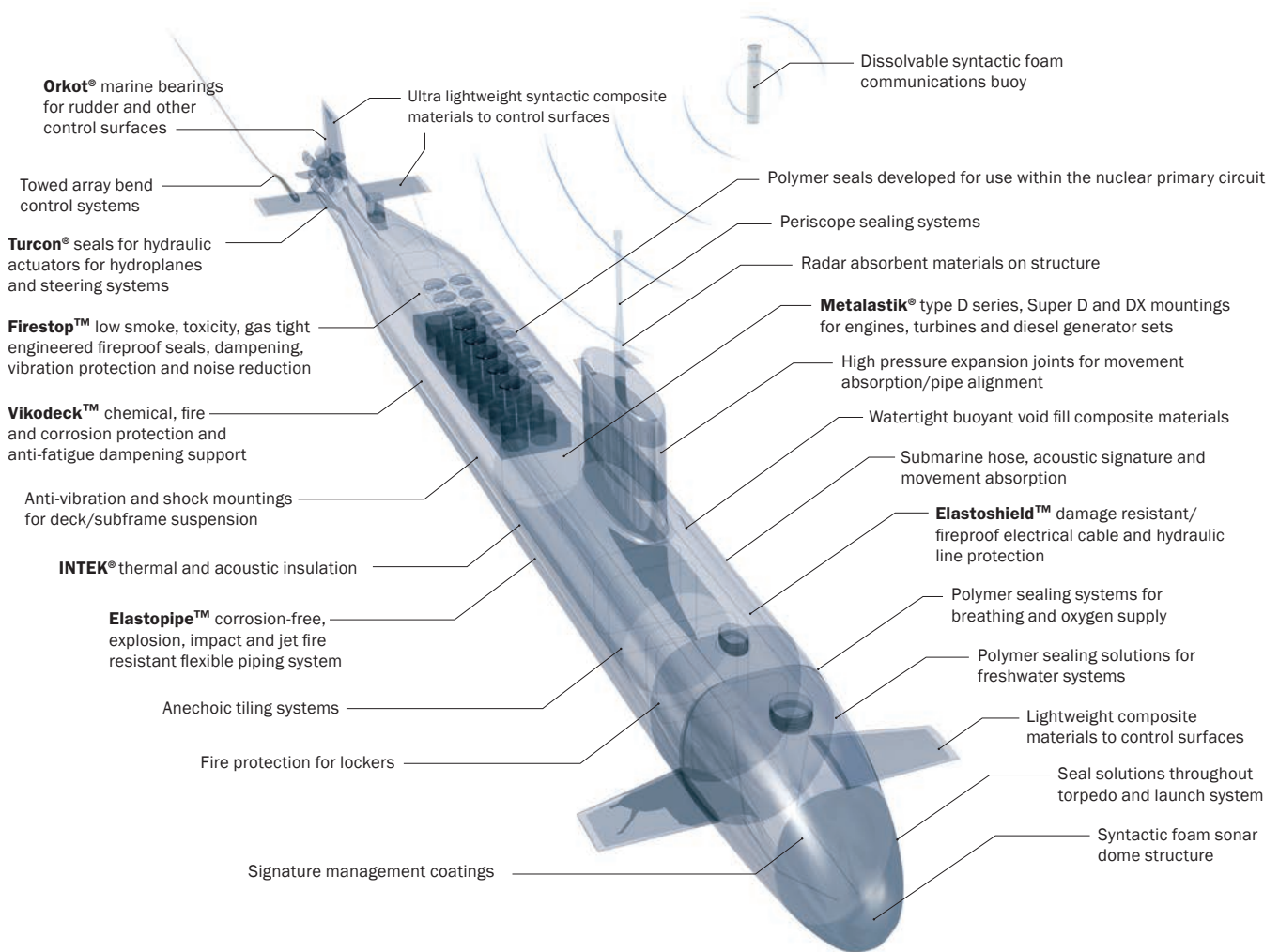




Image: Courtesy of BAE Systems



Accelerating performance in a wide range of defense applications

As a world leader in engineered polymer solutions, Trelleborg is able to seal, damp and protect critical applications in demanding environments. Our innovative solutions are designed to accelerate our customers' performance in many different ways – from improving functionality to increasing productivity. Trelleborg is able to provide tailored solutions using proven materials and technologies to meet the defense needs and requirements. For more information please contact your Trelleborg representative.

Acoustic & Anechoic Signature Control – Trelleborg have a wide range of products to improve the signature of underwater platforms by reducing radiated noise and target strength. Our core products are tiles (anechoic and decoupling tiles, transmission loss and decoupling materials), sonar materials (replaces glass reinforced plastic for sonar domes and windows), RhoC materials (designed to match the impedance and speed of sound in sea water), damping materials and encapsulation systems (large and small scale encapsulation of arrays with controlled exotherm).

Anti-vibration & Shock Mountings – Trelleborg's range of D series, Super D and DX anti-vibration and shock mountings (up to 20 tonnes load per mounting) are typically used in vessels that require a very high degree of vibration isolation and protection of equipment against shock impacts. The mountings have a variation of stiffness ratios to be able to tune the frequencies and obtain the maximum vibration isolation result and lowest possible underwater-noise levels. Additional buffers can be used to limit movement of the suspended equipment under shock impacts.

Bend Control Systems – Trelleborg have solutions to ensure that where any flexible tubular connects to a structure, normal movement during operation or forces incurred during installation prevent catastrophic failure of the tubular at the termination point. Trelleborg's towed array bend control systems can eliminate this damage.

Cable & Hydraulic Line Protection - Trelleborg's Elastoshield™ protects and extends the service life of electric cables and hoses in case of a fire. It is a corrosion resistant, robust and rugged design which gives additional protection against mechanical damage.

Flexible Piping Systems - In an emergency it is paramount that the deluge system delivers water where it is needed at the correct pressure, no matter the situation. Trelleborg Elastopipe™ is a corrosion-free, explosion, impact, and jet fire resistant flexible piping system which requires no hot work.

Hose Systems – Trelleborg's Trellsub® is installed for outstanding signature performance on all high pressure / vacuum fluid lines between hull and platforms. The hose system is extremely flexible allowing movements over 100 mm. The Trellsub® hose system has a proven track record and has passed the most demanding tests including live depth charges.

Lightweight Syntactic Composite Materials – Trelleborg's Eccospheres®, high-performance hollow glass microspheres, and Trelleborg Eccofloat® a syntactic foam series, have a consistent strength-to-weight ratio to maximize buoyancy and reduce weight in air. Trelleborg's buoyancy applications can be readily shaped to conform to hull contours and outfitted for installation in the forward and aft free-flood areas of subsea vessels. Applications include composite control surfaces, trim correction buoyancy and acoustic windows. The TG series materials are zero magnetic and have seawater comparable acoustic signatures.

Passive Fire Protection – Protecting people, structures and equipment from all types of fire in this extreme environment is paramount to ensuring on-board safety. Trelleborg's certified rubber based passive fire protection technology, protects structures from chemicals, fires and corrosion. The dampening, noise reducing flexible nature of Firestop™ protects equipment from vibrations, collisions and explosions. Firestop™ material is used in Vikodeck™, fire protection for lockers and tailored solutions.

Sealing & Bearing Solutions - Trelleborg develops, manufactures and supplies bearings and seal elements for static, rotary, linear, pneumatic and hydraulic applications under the trade names Turcon®, Zurcon® and Orkot®. Our solutions are used across the platform in applications where a need to maintain a high integrity barrier to debris, or to withstand pressures and fluids is critical. Trelleborg are experts in static to highly dynamic sealing applications and have a wide product and material portfolio to meet both common and extreme operating environments.

Thermal & Acoustic Insulation – Trelleborg's INTEK® is a premium range of light weight thermal and acoustic insulation solutions. In addition to providing superior acoustic absorption and thermal performance; it is fire resistant, has a wide temperature operating range, has extremely low smoke and toxicity, is quick and easy to install, and compatible with most adhesives.



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