

A large submarine is shown on the surface of the ocean, moving from left to right. The submarine is dark grey or black, with a prominent conning tower and various antennas. The ocean is a deep blue with white-capped waves. The text 'Acoustic signature control' is overlaid in large, white, bold letters across the middle of the image.

Acoustic signature control

Signature Management

Trelleborg manufactures a range of products to improve the signature of underwater platforms by reducing radiated noise and target strength. Trelleborg's key products are:

- **Tiles** - Anechoic and decoupling tiles for ships and submarines and transmission loss and decoupling materials.
- **Sonar Materials** - To replace Glass Reinforced Plastic (GRP) for sonar domes and windows.
- **Damping Materials** - Reducing, restricting, or preventing oscillations.
- **Encapsulation** - Large and small scale encapsulation of arrays with controlled exotherm.

Acoustic Signature Control

The fitting of properly designed acoustic material to submarines and surface ships can achieve a significant reduction in radiated and self-noise. This will decrease the range at which vessels can be detected and classified and frequently has the benefit of increasing the performance of their own sonar systems.

Anechoic Signature Control

In order to reduce the probability of detection by active sonar, it is possible to absorb or scatter the sonar energy, by the application of special coatings to the hull of the ship or submarine, the subsequent reduction in target echo strength can considerably reduce the range at which detection is achieved.

Trelleborg acoustic products can be applied to a platform in a variety of forms, enabling the most suitable material to be used across the widest range of applications.

Trelleborg has extensive manufacturing and test equipment for a wide range of elastomeric products. We are committed to delivering high quality, state of the art, materials tailored to meet customers' specific requirements.

Benefits:

- Reduces radiated noise and target strength
- Durable, used in demanding operating conditions
- Wide range of products and applications
- Supply to defense organizations globally

Applications:

- Submarines
- Surface ships
- Land based vehicles
- Other military applications



Contact us

Trelleborg's Applied Technologies division is an industry expert in delivering innovative and reliable solutions that maximize 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 endeavor to take performance to new levels by achieving your goals safely, on time and within scope.



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