

Defence

High performance materials
made in Australia

Innovating better

From its headquarters in Australia's largest composite manufacturing facility, Matrix produces engineered products, functional additives and advanced materials for the mining, energy and marine, civil and infrastructure, and defence industries.

Matrix uses innovative materials technologies and engineering to develop products and systems that are easier and safer to use, improve productivity and are more durable.

There are many products in use today that could and should be better. Matrix is creating them on a global scale.

Matrix Defence



Matrix buoyancy

Matrix LGS™

Matrix Cetrafoam

High performance composites

Paragon™

Kinetica™

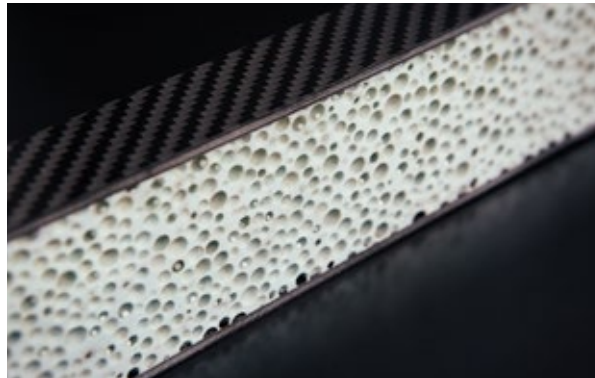
Technical services



Technologies

Matrix uses its proprietary polymer composite and chemical technologies, and its advanced engineering expertise to develop and manufacture a range of high performing products.

The company invests heavily in R&D to continually advance its product range. Matrix's head office boasts a large R&D facility run by scientists and material engineers from a broad spectrum of disciplines.



High performance composites

Long fibre reinforced laminates in both thermoset and thermoplastic polymers.



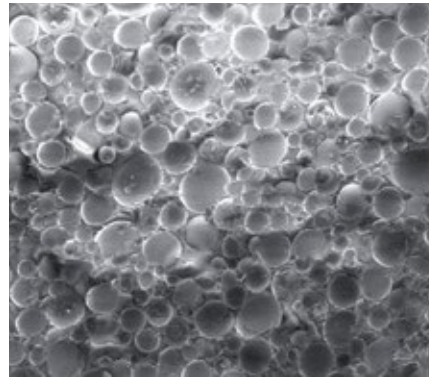
Reinforced thermoplastics

Heavy weight thermoplastics designed and qualified for severe service, with bespoke fibre reinforcement and polymer additives.



Polyurethane blends

Custom blended thermosets, adducted, filled and reinforced to achieve deep sections and tailored properties.



Syntactic foams

Light weight fillers – both micro and macroscopic – produce lightweight, stiff and strong materials blended at will to a client's requirements.



Drag and VIV reduction

Applied biomimetic geometries to reduce the strength and coherence of vortex formation.

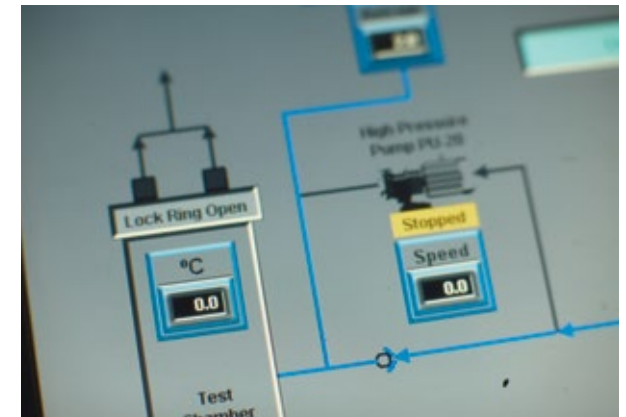


Lightweight energy absorption systems that are chemically inert with closely controlled crush strength and isotropic energy absorption. Kinetica can be cast in-situ to almost limitless volumes.

Advanced manufacturing processes

When designing Australia's largest, most technically advanced composite manufacturing facility, Matrix drew from the latest manufacturing concepts including lean production and one-piece flow.

The company also uses highly automated manufacturing processes including moving work cells and production lines, automated chemical processing, robotics and Scada-based control systems. This has allowed Matrix to produce superior quality products that are competitively priced and can be delivered within shorter timeframes. It's also why Matrix continues to be Australia's largest exporter of oil and gas equipment.



Quality, safety, environment and security

To ensure the properties and performance of its materials, Matrix undertakes vigorous on-site product and verification testing. This world-class testing and validating confirms that the products are fit for purpose and in line with the requirements of international quality standards such as API 16F, ISO-13628-16 and API 17L, as well as other specifications set by clients and industry bodies. In addition, Matrix has developed its own set of testing procedures that incorporate both industry and client driven standards.

Occupational Health, Safety and Environment (OHSE) are central to Matrix's business and are reflected in the company's culture and core values. Every Matrix employee is an OHSE champion, a mindset that is embedded into the culture and supported by its safety and compliance systems and key company values.



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