

AME™ 5001

PREMIUM MARINE RESINS

For decades, INEOS Composites' products have served the best boat builders in the world with new technologies that deliver unmatched quality and performance. Our newest product continues that tradition by capturing the latest trends and addressing the needs of today's high performance boats.

AME™ premium marine resins have been the preferred and trusted resins for the most respected boat builders for more than 30 years. As one of the first premium resins ever designed for the marine industry, AME™ resins have a flawless record of providing long lasting performance that has yet to be equaled. Working alongside premium boat builders, these modified epoxy vinyl ester resins have been designed to address a wide range of performance and production needs. INEOS has met and exceeded the expectations across North America and Europe with a history of being the leading supplier of reliable, durable products with real world performance.

AME™ 5001 resin is a premium epoxy vinyl ester resin. This multifunctional resin has improved physical properties as compared to standard vinyl ester blends, and can be used as a skin, bulk or tooling resin. The increased strength and flexural fatigue demonstrates a toughness not typically found in this variety of blended resin. A higher heat distortion temperature (HDT) ensures superior long term cosmetic performance. AME™ 5001 can also withstand the tough demands of the composite tooling market.

Benefits

- Excellent blister resistance
- Superior toughness and strength
- Low shrink
- Fast wet-out of glass fibers
- Outstanding fatigue life
- Meets ISO 122-15-1 small craft construction requirements
- Ultimate HDT of 221 °F
- Multifunctional resin – skin, bulk and tooling

Typical Property Comparison

| Property | AME™ 5001 Series | Standard Vinyl Ester Blends | Unit | Test Method |
|--------------------|------------------|-----------------------------|--------|-------------|
| Tensile Strength | 9,300 | 9,000 | psi | ISO 527 |
| Tensile Modulus | 500 | 500 | ksi | ISO 527 |
| Tensile Elongation | 2.1 | 2.2 | % | ISO 527 |
| Flexural Strength | 19,100 | 14,100 | psi | ISO 178 |
| Flexural Modulus | 570 | 560 | ksi | ISO 178 |
| Flexural Fatigue | 73,491 | 65,461 | cycles | |
| Ultimate HDT | 105 | 99 | °C | ISO 75 |

INEOS Composites

Innovation and Collaboration to Grow the Marine Market

INEOS has designed a complete line of premium gelcoats, epoxy vinyl ester resins, unsaturated polyester resins, low profile resins, fuel tank resins and barrier coats. Combined with INEOS' boat-building expertise, product development and technical service, INEOS will help you become a better, more profitable boat builder.

INEOS' technical service team has an industry-leading reputation for solving problems. We work closely with our customers to understand specific application challenges and recommend the best product to meet business objectives. Whether focused on product design, process optimization or new product development, INEOS prides itself on building partnerships that lead to innovative solutions. Visit ineos.com/composites to learn more.

GLOBAL PRESENCE

Global Headquarters INEOS Composites

North America
Dublin, OH USA
Tel: +1 614 790 9299
Americascustomer.composites@INEOS.com

Regional Centers

Asia Pacific
Shanghai, P.R. China
Tel: +86 21 2402 4688
ASIAcustomer.composites@INEOS.com

Europe
Barcelona, Spain
Tel: +34 93 206 5120
EMEAcustomer.composites@INEOS.com

India
Navi Mumbai
Tel: +91 22 6148 9696
EMEAcustomer.composites@INEOS.com

Latin America
Araçariquama, São Paulo, Brazil
Tel: +55 11 4136 6477
Americascustomer.composites@INEOS.com

© Registered trademark, INEOS or its subsidiaries, registered in various countries

™ Trademark, INEOS or its subsidiaries, registered in various countries

© 2019, INEOS / COM19-13380.2

All statements, information, and data presented herein are believed to be accurate and reliable, but are not to be taken as a guarantee of fitness for a particular purpose, or representation, express or implied, for which seller assumes legal responsibility. No freedom to use any patent owned by INEOS, its subsidiaries, or its suppliers is to be inferred.

INEOS Composites