

Technical Datasheet

INEOS Composites

AME™ 5000 T-30 Premium Marine Resin

AME 5000 T-30 is a bisphenol-a epoxy vinyl ester hybrid resin that has a proven history of resilience, blister resistance, excellent fatigue life and toughness. AME 5000 T-30 resin addresses premium boat builder's need for excellent processability. AME 5000 -series is in its second decade of proven performance. AME 5000 -series is offering:

- Excellent blister resistance
- Fast wet out of glass fibers
- Excellent fatigue life
- Superior surface profiles with minimal shrink
- No foaming
- User friendly processing

Typical liquid resin properties

Property at 25 °C	Value	Unit	Method
Viscosity , Brookfield, 10 rpm	1300	mPas	ISO 2555
Viscosity , Brookfield, 60 rpm	400	mPas	ISO 2555
Viscosity, cone & plate	300	mPas	ISO 2884
Styrene content	35	%	SFS 4864
Geltime, 1,5% MEKP-50	30	min	D 006

Typical cured resin properties

Property, postcured for 16 hours at 40 °C	Value	Unit	Method
Tensile strength	57	MPa	ISO 527-2
Tensile modulus	3400	MPa	ISO 527-2
Elongation at break	2,4	%	ISO 527-2
Flexural strength	101	MPa	ISO 178
Flexural modulus	2700	MPa	ISO 178
Water absorption, 60°C, 24h ¹	0,45	%	R 016
Heat deflection temperature, ultimate	110	°C	ISO 72
¹ Post cured 6h at 100°C			

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Recommended Product Application	<p>AME 5000 T-30 premium marine resin can be used in hand lay-up or spray-up, both above or below water line.</p> <p>AME 5000 T-30 is an excellent choice for a skin coat, because it cures very well in thin layers and excellent application properties enable producing air free laminates.</p> <p>AME 5000 T-30 bisphenol-a epoxy vinyl ester hybrid resin is an excellent choice for the boat builders who desires enhanced mechanical properties beyond traditional unsaturated polyester resins.</p>
Certificates and approvals	<p>AME 5000 T-30 premium marine resin is approved by Lloyd's Register for construction of small crafts. It is also ISO 12215-1 (small craft - hull construction and scatlings) compliant. The mechanical properties, performed on laminates prepared and post cured according to ISO 12215, meet the minimum requirements of section 4.3 of the standard.</p> <p>The manufacturing, quality control and distribution of products, by INEOS Composites, are complying with one or more of the following programs or standards: ISO 9001, ISO 14001 and OHSAS 18001.</p>
Handling and storage	<p>It is highly recommended that all material is stored at stable temperature under 25 °C preferably indoors, and away from sunlight. Prolonged storage outside of recommended conditions can influence liquid resin properties like viscosity and gel time. It is also strongly recommended to mix resin thoroughly before use. Shelf life of AME 5000 T-30 is three (3) months.</p>
Notice	<p>All information presented herein is believed to be accurate and reliable, and is solely for the user's consideration, investigation and verification. The information is not to be taken as an express or implied representation or warranty for which INEOS Composites assumes legal responsibility. Any warranties, including warranties of merchantability, fitness for use or non-infringement of intellectual property rights of third parties, are herewith expressly excluded.</p> <p>Since the user's product formulations, specific use applications and conditions of use are beyond the control of INEOS Composites, INEOS Composites makes no warranty or representation regarding the results which may be obtained by the user. It shall be the sole responsibility of the user to determine the suitability of any of the products mentioned for the user's specific application.</p> <p>INEOS Composites requests that the user reads, understands and complies with the information contained herein and the current Material Safety Data Sheet.</p>

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More Information

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