

Technical Datasheet



AME™ 6000 T-35 Premium Marine Resin

AME 6000 T-35 premium marine resin is a preaccelerated, thixotropic low VOC epoxy vinyl ester based laminating resin. High performance marine composites can be constructed using AME 6000 T-35 resin offering;

- Superior laminate strength
- High heat resistance
- Good surface quality
- Excellent hydrolysis resistance
- User friendly processing

Typical liquid resin properties

Property at 25 C	Value	Unit	Method
Viscosity , Brookfield, 5 rpm	1300	mPas	ISO 2555
Viscosity , Brookfield, 60 rpm	500	mPas	ISO 2555
Viscosity, cone & plate	300	mPas	ISO 2884
Styrene content	35	%	SFS 4864
Geltime, 1,5% MEKP-50	35	min	D 006

Typical cured resin properties

Property	Value	Unit	Method
Postcured for 2h at 60 C			
Tensile strength	81	MPa	ASTM D-638
Tensile modulus	3500	MPa	ASTM D-638
Elongation at break	4,2	%	ASTM D-638
Flexural strength	131	MPa	ASTM D-790
Flexural modulus	3700	MPa	ASTM D-790
Heat deflection temperature	79	C	ASTM D-648
Postcured for 2 hours at 138 C			
Tensile strength	89	MPa	ASTM D-638
Tensile modulus	3700	MPa	ASTM D-638
Elongation at break	3,5	%	ASTM D-638
Flexural strength	137	MPa	ASTM D-790

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Flexural modulus	3800	MPa	ASTM D-790
Heat deflection temperature	124	C	ASTM D-648

Application and use	AME 6000 T-35 resin is recommended for marine applications and can be hand laid-up or sprayed-up. AME 6000 T-35 is designed as a premium skin coat resin and back up resin for high performance off-shore motor and sailing yachts, that remain in the water for an extended period of time.
Certificates and approvals	<p>AME 6000 T-35 premium marine resin is approved by Lloyd's Register for construction of small crafts.</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: Responsible Care, ISO 9001, ISO 14001 and OHSAS 18001.</p>
Handling and storage	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 6000 T-35 is three (3) months.
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>