

AME® 6000 INF Premium Marine Resin / Infusion

AME 6000 INF premium marine resin is a preaccelerated, non-thixotropic epoxy vinyl ester based infusion resin. AME 6000 INF resin is used in construction of high performance marine composites offering;

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

Typical liquid resin properties

Property at 23 C	Value	Unit	Method
Viscosity , Brookfield (5 rpm)	250	mPas	ISO 2555
Viscosity, Cone & Plate	250	mPas	ISO 2884
Styrene content	35	%	SFS 4864
Geltime (1,5%Norox MCP-75)	35	min	D006
Geltime (0,3%NLC-10+1,5%Norox MCP-75)	120	min	D006

(See Additional information)

Typical cured resin properties

Property	Value	Unit	Method
Postcured for 2h at 60 C			
Tensile Strength	81	MPa	ASTM D-638
Tensile Modulus	3,5	GPa	ASTM D-638
Tensile Elongation	4,2	%	ASTM D-638
Flexural Strength	131	MPa	ASTM D-790
Flexural Modulus	3,7	GPa	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	3,7	GPa	ASTM D-638
Tensile Elongation	3,5	%	ASTM D-638
Flexural Strength	137	MPa	ASTM D-790
Flexural Modulus	3,8	GPa	ASTM D-790
Heat Deflection Temperature	124	C	ASTM D-648

Application and use

AME 6000 INF resin is especially recommended for marine applications using the infusion process. AME 6000 INF is designed as a premium resin for high performance off-shore motor and sailing yachts, that remain in the water for an extended period of time.



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Certificates and approvals

AME 6000 INF premium marine resin complies with Lloyd's Register of Shipping rules for construction of small crafts.

Additional information

For more information on curing characteristics of AME 6000 INF infusion resin and adjustment of inhibitor (NLC-10) and peroxide (MCP-75) levels for optimal curing, please contact your Ashland representative.

Handling and storage

It is highly recommended that all material is stored at stable temperature under 20 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 INF is three (3) months.

Notice

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Since the users product formulations, specific use applications and conditions of use are beyond the control of Ashland, Ashland makes no warranty or representation regarding the results which may be obtained by the user. It shall be the responsibility of the user to determine the suitability of any of the products mentioned for the users specific application.

Ashland requests that the customer reads, understands and complies with the information contained herein and the current Material Safety Data Sheet.

More information

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