

Technical Datasheet



AME™ 6001 INF-135 Premium Marine Resin Infusion

AME 6001 INF-135 Infusion resin is a high performance 100% epoxy vinyl ester resin, that have both excellent processability and superior mechanical properties. AME 6001 INF-135 resin utilizes the proven history of resilience, blister resistance, excellent fatigue life and toughness of AME 6000 resins with new technology that further increases strength and improves surface profile for the boat builder that demands faultless, long lasting performance.

Greater Resistance to Fatigue Failure
 Excellent Surface Profiles with Low Shrink
 Increased Hydrolysis Resistance
 Exceeds ISO 12215-1 Type "A" mechanical requirements
 Exceeds DNV Grade "1" mechanical requirements

Typical liquid resin properties

| Property | Value | Unit | Method |
|----------------------------------|-------|--------|----------|
| Viscosity, cone & plate at 25 °C | 170 | mPas | ISO 2884 |
| Styrene content | 39 | % | SFS 4864 |
| Density | 1,1 | kg/dm3 | ISO 2811 |

Geltime with different peroxides at 20°C

| | 1,25 % | 1,5 % | 2,0 % | |
|--------------|--------|-------|-------|---------|
| Trigonox 249 | 240 | 135 | 85 | Minutes |
| Norox MCP-75 | 185 | 115 | 75 | Minutes |
| Curox CM-75 | 185 | 115 | 75 | Minutes |

Typical cured resin properties

| Property | Value | Unit | Method |
|------------------------------|-------|------|------------|
| Postcured for 24h at 60 °C | | | |
| Tensile strength | 79 | MPa | ASTM D-638 |
| Tensile modulus | 3450 | MPa | ASTM D-638 |
| Elongation at break | 5,2 | % | ASTM D-638 |
| Flexural strength | 149 | MPa | ASTM D-790 |
| Flexural modulus | 3620 | MPa | ASTM D-790 |
| Heat Deflection temperature* | 113 | °C | ASTM D-648 |
| * postcured for 24h at 90°C | | | |

Application and use

AME 6001 INF-135 resin is especially recommended for marine applications using the infusion process. AME 6001 INF-135 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.



Responsible Care*

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For more information on curing characteristics of AME 6001 INF-135 infusion resin and peroxide levels for optimal curing, please contact your Ashland representative.

Certificates and approvals

AME 6001 INF-135 resin is approved by Lloyd's Register for Special Service Craft.

The manufacturing, quality control and distribution of products, by Ashland Performance Materials, are complying with one or more of the following programs or standards: Responsible Care, ISO 9001, ISO 14001 and OHSAS 18001.

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 6001 INF-135 is three (3) months.

Notice

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 Ashland 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.

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



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