

# STAR Technology

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## ER7300

### Single Part Epoxy Compound

#### DESCRIPTION

ER7300 is a single part heat cure epoxy designed for high bonding strength under high heat conditions with controlled flow characteristics. The ER7300 with its ideal properties was designed for wet winding applications, adhesive, patching and sealing. Use brush, spatula or automatic wet winding equipment for application. Shelf life is 6 month when stored at 77°F(25°C) or can be extended to 12 months at 46F (8°C).

Data contained herein are believed to be reliable. Fit-for-use testing should be conducted by each user. Large parts and/or multiple parts may require extended cure time to reach temperature.

#### BENEFITS

Maintains Physical Integrity  
Non-Flowing During Cure  
Minimal Waste  
Outstanding insulator  
Good for High voltage Applications

#### TYPICAL PROPERTIES

	<u>TEST METHOD</u>	<u>VALUE</u>
Minimum Cure Cycle (hours):		4 at 150°C
Cure Cycle for Ultimate Properties (hours):		8-16 at 150°C
Shore D Hardness:	ASTM D2240	85
Tensile Strength (psi):	ASTM D638	12000
Maximum Operating Temperature (°C):		180
Elongation (%):		<1
Coefficient of Thermal Expansion (m/m C):		40x10 <sup>-6</sup>
Onset Temperature (° C):		168
Thermal Conductivity (W/m C):		0.76
Tg (° C):	ASTM D3418	157
Flash Point (°C):		>200
Weight/Gallon		11.8 ± .4
Water Absorption (%):		>1.0
Weight Loss (%):		>0.5
Product:		
Specific Gravity (g/cc):	ASTM D1475	1.40
Viscosity (cps):	ASTM D2393	480000
Color:		Beige
Shelf Life (months):		6-12

To the best of our knowledge, the information contained herein is accurate. However, STAR TECHNOLOGY, Inc., does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of the suitability of any material is the sole responsibility of the user. The information contained herein is considered typical properties and is not intended to be used as specifications for our products. This information is offered solely to assist purchaser in selecting the appropriate products for purchaser's own testing. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein and in the material safety data sheet, we cannot guarantee that these are the only hazards that exist. Repeated and prolonged exposure to epoxy resins can cause sensitization or other allergic responses.



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#### PRECAUTIONS

For industrial use only. Keep away from children.

Refer to the Material Safety Data Sheets (MSDS forms) pertaining to this product before using.

Avoid contact with skin or eyes. In the event of an eye splash or contact, immediately flush with cold water for 15 minutes and contact a physician. If skin contact occurs, wash with mild soap and water. The wearing of safety glasses with side shields and impervious gloves is recommended.

#### PRODUCT WARNING STATEMENT

May cause allergic skin reaction. Avoid all contact with skin, eyes, and clothing. Wash thoroughly after handling.

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