

# STAR Technology

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## ER2170

### Two Part Silicon Steel Alloy Filled Epoxy

#### DESCRIPTION

ER2170 is a high-performance epoxy composite, silicon steel alloy filled epoxy system used for repairing and rebuilding machinery equipment. ER2170 has excellent chemical resistance. ER2170 is used for applications such as bearings, casings, shafts, pipes, and hydraulic rams. For best results coating should be post cured at elevated temperature.

Data contained herein are believed to be reliable. Fit-for-use testing should be conducted by each user.

#### TYPICAL PROPERTIES

	<u>TEST METHOD</u>	<u>VALUE</u>
Gel Time [100g @ 23C] (min):		60
Cure (Hours):		24
Post Cure [150°C] (min):		30
Shore D Hardness:	ASTM D2240	86
Part A:		
Specific Gravity (g/cc):	ASTM D1475	2.67
Viscosity (cps):	ASTM D2393	Paste
Color:		Dark Gray
Part B:		
Specific Gravity (g/cc):	ASTM D1475	2.03
Viscosity (cps):	ASTM D2393	Paste
Color:		Light Gray
Mixed Product:		
Specific Gravity (g/cc):	ASTM D1475	2.54
Color:		Gray
Dielectric Constant [1V, 10 kHz]:	ASTM D150	7.71
Surface Resistivity [500V for 1 min] ( $\Omega$ ):	ASTM D257	$1.47 \times 10^{15}$
Volume Resistivity [500V for 1 min] ( $\Omega$ cm):	ASTM D257	$2.27 \times 10^{14}$
Dielectric Breakdown Strength [2000V/s] (V/mil):	ASTM D149	60
Ultimate Compressive Strength (MPa):	ASTM D695	108
Glass Transition Temperature (°C):		117
Mix Ratio:		
By Weight:		100:20
Shelf Life (months):		
Part A:		6
Part B:		6

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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#### APPLICATION PROCEDURES

Carefully weigh out appropriate amounts of resin and hardener into a clean mixing container and thoroughly mix until all streaks and striations are gone. Scrape the sides and bottom frequently to ensure complete mixing.

For 1# and 2# kits, add all of Part B to Part A and mix thoroughly.

*CAUTION:* Unmixed compound from the sides or bottom of the container can cause soft spots or uncured areas in the completed piece. To prevent this, transfer the entire mixed contents to a second clean container and remix for a short time before using.

#### 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.

#### RESIN AND HARDENER WARNING STATEMENT

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

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