

# MFE® -W3

Vinyl Ester  
Huachang Polymer Co., Ltd.

Message:

MFE-W3 is a novolac-based epoxy vinyl ester resin. It offers corrosion resistance at higher temperatures.

PROPERTY

High heat-resistance, heat distortion temperature of casting is 150°C and for FRP is 210°C.

Excellent anti-corrosion and superior stability to some solvents and oxidizing media.

Complies with FDA regulation 21 CFR 177.2420, when properly formulated and cured, for repeated use in food contact materials.

APPLICATION

Various corrosion resistant FRP products, such as chemical tank, pipe, served at elevated temperatures.

Used as the jointing material, resin mortar and special adhesive with chemical resistance.

Used as anti-corrosion FRP lining for the surface of metal or concrete.

Can be used in pultrusion, filament winding, spray up and hand lay- up process.

General Information			
Features	Food Contact Acceptable		
	Good Chemical Resistance		
	Good Corrosion Resistance		
	High Heat Resistance		
	Oxidation Resistant		
	Solvent Resistant		
Uses	Adhesives		
	Industrial Tanks		
	Liners		
	Piping		
Agency Ratings	FDA 21 CFR 177.2420		
Appearance	Yellow		
Processing Method	Filament Winding		
	Hand Lay-up		
	Pultrusion		
	Spraying		
Physical	Nominal Value	Unit	
Acid Value	6.00 to 14.00	mg KOH/g	
Solids Content	62 to 68	%	
Thermal Stability (80°C)	> 1	day	
Gel Time (25°C)	10.0 to 20.0	min	
Gel to Peak	5.0 to 10.0	min	
Peak Exotherm	160 to 180	°C	
Mechanical	Nominal Value	Unit	Test Method

Tensile Modulus	3600	MPa	ASTM D638
Tensile Strength	80.0	MPa	ASTM D638
Tensile Elongation (Break)	3.5	%	ASTM D638
Flexural Modulus	3600	MPa	ASTM D790
Flexural Strength	145	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	150	°C	ASTM D648
Thermoset	Nominal Value	Unit	
Thermoset Mix Viscosity (25°C)	250 to 350	cP	

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#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

