



TECHNICAL DATA SHEET

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DOLPHON[®] CC-1261

SOLVENTLESS POLYESTER RESIN

PRODUCT DESCRIPTION

CC-1261 is a fast curing, two-part, solventless polyester resin system for high volume, automated trickle impregnation operations. This resin was developed to help speed up the production process while also lowering energy usage because of the resins low temperature curing capabilities.

FEATURES & BENEFITS

<ul style="list-style-type: none"> • Fast, low temperature cure • Low viscosity • Good mixed pot life • Low energy costs 	<ul style="list-style-type: none"> • Excellent wetting properties • Easy processing • Excellent, tough film and good bond strength • UL recognized
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TYPICAL APPLICATIONS

<ul style="list-style-type: none"> • Rotors • Stators 	<ul style="list-style-type: none"> • Field coils 	<ul style="list-style-type: none"> • Armatures
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TYPICAL PROPERTIES

Physical

Color/Appearance	Clear/Amber
Weight per Gallon @ 77°F (25°C), ASTM D 1475, lbs/gal	9.0 – 9.4
Viscosity, Brookfield @ 77°F (25°C), ASTM D 2196, cps	200 – 400
Film Build, ASTM D 115, mils/side	1.5
Gel Time @ 180°F (82°C) with 3% CA-2011, ASTM D 3056, minutes	5 – 10
Pot Life with 3% CA-2011, days	@ 77°F (25°C) 3 – 4 @ 90°F (32°C) 1 – 2
Flash Point, °F	127
VOC Content, ASTM, D 6053, lbs/gal	0.1

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Mechanical

Helical Coil Bond Strength, ASTM D 2519, lbs	@ 25°C	30
	@ 150°C	10

Electrical

Dielectric Strength, ASTM D 115, volts/mil	Dry	3,000
	Wet	2,000
Dielectric Constant @ 25°C, 1 kHz, ASTM D 150		3.2
Dissipation Factor @ 25°C, 1 kHz, ASTM D 150		0.02
Surface Resistivity, ASTM D 257, ohms		1x 10 ¹²
Volume Resistivity, ASTM D 257 ohm-cm		3x 10 ¹⁴

Thermal Class (UL-1446)

Twisted Pair	Magnet Wire	Temp
		MW16
	MW35	180
	MW80	155
Helical Coil	MW35	180
	MW80	155

RESIN PREPARATION

CC-1261 polyester heatless trickle resin must be catalyzed to achieve cure. Immediately before use, add 1 to 3% CA-2011 catalyst and mix thoroughly. Note: The amount of catalyst addition will affect the cures at temperature. Testing on the processing equipment will help determine proper mix ratio for use.

APPLICATION AND CURE**Trickling**

1. Preheat parts to 180 – 200°F depending on the size of the unit.^a
2. Trickle with catalyzed resin on the preheated units.^a
3. Cure at 180 - 200°F while under rotation. (A more rapid cure can be achieved with an elevated temperature)

(a) Unit temperature should be 180° minimum

EQUIPMENT RECOMMENDATIONS AND PRECAUTIONS

CC-1261 will react with copper, copper alloys and natural rubber. Therefore, do not use these materials in the tank or recirculating system. Tanks should be constructed of black iron or stainless steel and flexible fittings should be made of synthetic rubber or plastic.

STORAGE AND SHELF LIFE

Shelf life is 3 months from date of shipment from our plant, when stored in closed containers at 70°F/21°C or below.

1. Store in cool, dry place at 70°F/21°C or below.
2. Protect from direct sunlight and sources of heat
3. Keep away from heat, sparks and open flame.

SAFETY AND ENVIRONMENT

Avoid contact with skin and eyes. See Material Safety Data Sheet

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