

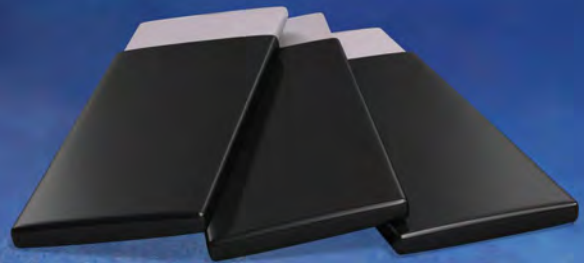
SolEpoxy™ DK15-0463 FG



Fine grind version of DK15-0463 with great humidity resistance for outdoor low voltage busbars



GREAT ADHESION TO COPPER BUSBAR



SMOOTH FINISH ALLOWS CLOSE STACKING IN BUSWAY



EXCELLENT MOISTURE RESISTANCE



FINE GRIND VERSION OF DK15-0463
FOR BETTER FLUIDIZED BEDS

DESCRIPTION

SolEpoxy™ DK15-0463 FG is an epoxy based coating powder developed for the **insulation of low voltage busbars**.

It offers improved **moisture resistance** and **dielectric strength** along with a **smooth surface appearance**. The particle size distribution is optimized for use in large fluid bed coating operations.

DK15-0463 FG has a **UL Relative Thermal Index (RTI) rating of 130°C**, making it ideal for applications requiring **high thermal stability**.

ADVANTAGES

- ▶ Excellent bed life—so important for large busbar coating operations
- ▶ Excellent moisture resistance, even in high temperature and corrosive conditions
- ▶ Suitable for both copper and aluminum busbar coating
- ▶ Smooth surface allows closer bar spacing in busway

DK15-0463 FG is an extremely reliable coating powder, used for decades in the power distribution industry.

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RECOMMENDED CURE CONDITIONS

Application Method ¹ , electrostatic fluidized bed	■□□□
fluidized bed	■■■■
electrostatic spray / blow coating	■□□□

Cure Conditions, minutes,	@ 230 °C	15
Preheat Temperature, °C		170 - 220

UNCURED PROPERTIES

Bulk Density, g/cc		0.69
Particle Size, %, -177 micron / 80 mesh		100
- 44 micron / 325 mesh		42
Halogen-free		yes
RoHS / REACH Compliant		yes
Shelf Life, from date of manufacture, months,	@ 10 °C	12

TYPICAL CURED GENERAL PROPERTIES

Available Colors ²	● Black	
ability to visually detect arc tracks ¹	■□□□	
Specific Gravity, g/cc		1.52
Glass Plate Flow, mm,	@ 150 °C	27
Hot Plate Gel Time, seconds,	@ 210 °C	49
Build Rate, mil/sec,	@ 180 °C	5.8
	@ 210 °C	8.4
Edge Coverage ³ ,	%	45.0

TYPICAL CURED MECHANICAL PROPERTIES

Closed Anvil Impact ⁴ ,	inch/lbs	150
	joules	8.24

TYPICAL CURED THERMAL PROPERTIES

UL Relative Thermal Index (RTI) Rating, UL 746B, °C		106
UL Flammability Rating, UL 94	@ 0.53 mm	HB-0

TYPICAL CURED ELECTRICAL PROPERTIES

Volume Resistivity, ohms-cm,	500 volts @ 25 °C	8.6 x 10 ¹⁶
Arc Resistance, seconds		130
Insulation Resistance,	@ 25 °C	1.8 x 10 ¹⁴
	@ 100 °C	2.0 x 10 ¹²
Dielectric Strength ⁵ ,	volts/mil	1130
	kV/mm	44
Dielectric Constant, 100 Hz,	@ 25 °C	3.9
	@ 100 °C	4.0
Dissipation Factor, 100 Hz,	@ 25 °C	0.006
	@ 100 °C	0.020

¹ rating: ■□□□ poor, ■■□□ fair, ■■■□ good, ■■■■ excellent

² custom colors may be possible to formulate

³ dipped, cured @ 210 °C, -17 mils / 0.43 mm

⁴ cured 10 minutes @ 210°C

⁵ 20 mil / 0.51 mm thickness

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STORAGE & HANDLING

Powder should be stored at 10°C or below, in closed containers. After removal from cold storage, the material **must be allowed to come to room temperature** in the sealed container to avoid moisture contamination. Suggested waiting time is 24 hours. Please consult our *Product Handling Recommendations for Coating Powders*.

For safe handling information on this product, consult the Material Safety Data Sheet (MSDS).

DATA RANGES

The data contained herein may be reported as a typical value and/or range of values based on actual test data and are verified on a periodic basis.

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