

3. IMPREGNATING RESINS **VUDAC**/ Polyesterimide in diacrylate/ **NAB/800/Z-1K**



CABLES



IMPREGNANTS



WIRES



RESEARCH

(UL certification - pending)

Application:

Impregnating resin is suitable for insulation systems – thermal class H. It is suitable for trickling impregnation of windings of electrical rotating machines.

Characteristics:

One component trickle impregnating resin resins NAB/800/Z-1K features with short curing time at 140°C. Only a small amount of volatile substances avoid during curing. Impregnating resin doesn't pollute the environment and doesn't cause fire hazards. It is not necessary to clean exhaust air.

Processing data and properties of liquid resin:

Density (DIN 53 217)	20°C	[kg/m ³]	1050 - 1150
Viscosity	25°C	[mPa.s]	700-1000
Shelf- life	+5°C - 25°C	[month]	6
Flash point (Cleveland)		°C	>112
Gel-time ¹	130°C	[min]	2/30-4
Reaction time ^{2,3}	130°C	[min]	3-5
Maximum temperature ^{2,3}	130°C	[°C]	180 - 230
Curing time ⁴	140°C 150°C	[min]	30 10
Effect of resin on enameled wires ⁵			OK



VUKI
SINCE 1950

F-11.1.22-49-1/12 en

3. IMPREGNATING RESINS **VUDAC**/ Polyesterimide in diacrylate/ **NAB/800/Z-1K**



CABLES



IMPREGNANTS



WIRES



RESEARCH

(UL certification - pending)

Properties after cure:

Curing of test specimen	130 °C	[h]	2
Ability to cure in considerable thickness ^{2,6}		[degree ¹⁰]	1. 1.1.1. ¹⁰ 0. 1.1.1.
Electric strength ^{2,7}	23 °C 155 °C after 96 hrs at 92 % relative humidity in water at 23 °C	[kV/mm]	70 50 45
Volume resistivity ²	23 °C 155 °C after immersion in water for 96 hours at 23 °C	[Ω.m]	1.10 ¹⁴ 2,5.10 ¹⁰ 5,6.10 ¹³
Twisted coil test ⁸	23 °C 180 °C	[N]	200-260 100-125
Thermal endurance ⁹		[°C]	180

1. DIN 16 945 Method A
2. DIN 46 448 Blatt 1
3. Fe-Ko after ASTM D 2471-71
4. from reached temperature 130 °C in winding
5. STN 67 31 50 part. 11, met. B after 60 min at 60 °C

6. 2 h at 100 °C + 2 h at 130 °C
7. Test specimens A2, cylindrical electrode Ø 6 mm
8. IEC 61033 met. A,
9. IEC 60216-1,-2
10. The upper side: S – smooth
The underside: U - non tacky
The interior: I – hard, free of bubbles

Packing and storage:

Impregnating resins are delivered in drums. They have to be stored in tightly closed drums at temperature from +5 °C to +25 °C.

The information provided herein accords with our knowledges about the subject on the date of publication. This information might be revised if new knowledges and experience will be available. The data provided fall within the normal range of product properties are related only to the specific material. These data may not be valid for such material used in combination with any other materials or additives or in any process, unless expressly indicated otherwise. The data provided should not be used to set limits or used alone as the basis for design. The data are not intended for substitute of any testing that you might need to do for decision if the specific material is suitable for your particular purposes. Since VUKI ca not anticipate all variants in actual end-use conditions, VUKI makes no warranties and assumes no liability in connection with any use of this information. Nothing in this document is to be considered as a license to application or recommendation to infringe any patent rights.



VUKI
SINCE 1950

F-11.1.22-49-1/12 en