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

CABLES IMPREGNANTS WIRES RESEARCH

(UL certification - pending)

Aplication:

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

Charakteristics:

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 a.s., Rybničná 38, SK-831 07 Bratislava, Tel: 421 2 4488 2824, 49213 231, 49213 213, Fax: 421 2 4488 1041,
email:info@vuki.sk, www.vuki.sk

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Properties after cure:

Curing of test specimen	130 °C	[h]	2
Ability to cure in considerable thickness [2,6]		[degree[10]]	I. 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 ASTMD 2471-71
4. from reached temperature130 °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.

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