

DuPont™ Voltatex® 7300 B

TECHNICAL DATA SHEET

Chemical base: THEIC- modified polyesterimide

Voltatex® 7300 B represents a class of magnet wire enamel based on a THEIC- modified polyesterimide resin with different solid contents such as Voltatex® 7329 B, Voltatex® 7340 B and Voltatex® 7346 B.

Magnet wires insulated with Voltatex® 7300 B combine high thermal rating with good chemical resistance and flexibility.

Voltatex® 7300 B is widely used on magnet wires for electrical motors, refrigeration equipment, transformer windings and also ballasts for fluorescent lamps.

Voltatex® 7300 B enamelled magnet wires are approved by Danfoss for use in hermetic compressors.

Transformer oil resistance test acc. IEC 60851-4 is passed.

An application combined with a polyamideimide based topcoat in N-methylpyrrolidone solvent e.g. Voltatex® 8100, Voltatex® 8200 or Voltatex® 8300 is possible.

Enamelling technology

Voltatex® 7300 B can be applied in a wire diameter range from approx. 0.03 mm up to approx. 3.00 mm, single and heavy build by convection or recirculating air ovens, both horizontal and vertical types. The enamel can be applied with dies or felt.

Special enamel formulations required by latest generation of enamelling machines are available.

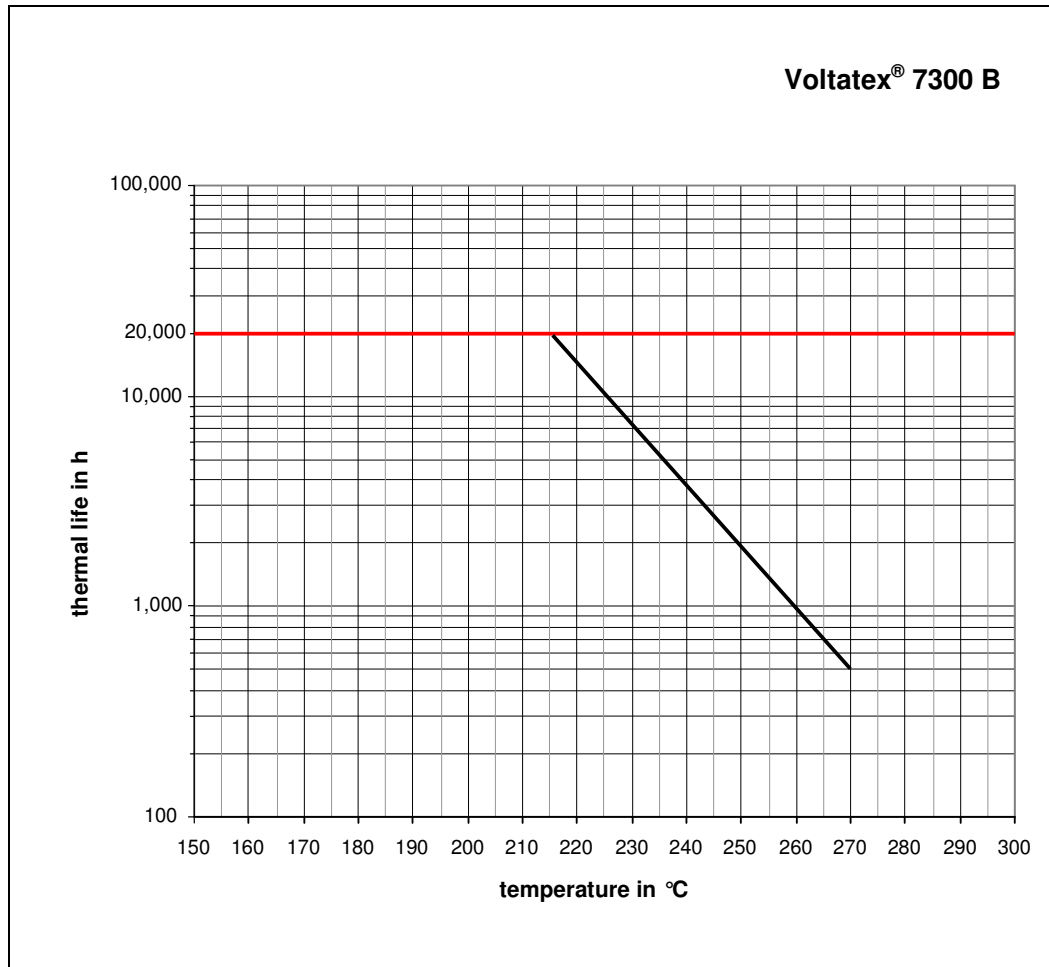
Voltatex® 7300 B can be supplied at different viscosities and solid contents as listed below in table 1 to fulfil specific machine and application requirements.

Table 1: Standard parameters

| | Voltatex® 7329 B | Voltatex® 7340 B | Voltatex® 7346 B |
|-------------------------------------|------------------------|----------------------------|------------------------------|
| solid content (1g, 1h, 180 °C) | 29 % ± 1 % | 40 % ± 1 % | 45.5 % ± 1.5 % |
| flow time (4 mm, 23 °C) ISO 2431 | 20 s – 25 s | 150 s – 250 s | |
| viscosity at 25 °C DIN 53015 | 71 mPa·s – 87 mPa·s | 600 mPa·s – 1,000 mPa·s | 3,000 mPa·s – 4,000 mPa·s |
| diluent | Voltatex® 9968 | Voltatex® 9968 | Voltatex® 9968 |

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