## **VICENTE TORNS SLOVAKIA**

# VICENTE TORNS GROUP

# **Enamelled wires**

# **VT THERM 200° Round Copper**

- Enameled winding wire with excellent mechanical, thermal and chemical properties
- Insulation based on (THEIC)modified polyesterimide overcoated with polyamide-imide
- Temperature Index 200

#### **General description**

VT THERM 200° round-shaped copper wires are insulated with an polysterimide varnish overcoated with polyamide-imide. The insulation provides excellent mechanical and chemical properties.

#### **Application**

Windings on high-speed automatic machines. Main applications are found in motors, generators, transformers.

#### **Conventional Types**

Round copper wires:

Diameters: 0,20 to 3,75 mm
 Coating class: Grade 1,2 and 3
 Dimensions outside of this range on request

The standard dimensions of the conductors (nominal dimension) and the tolerances comply with the standard IEC 60317-13.

#### **Standards**

VT THERM 200° round copper wires meet the requirements of **IEC 60317-13.** 

The test methods are based on IEC Publication 60851

60851-1 General

60851-2 Definition of dimensions

60851-3 Mechanical properties

60851-4 Chemical properties

60851-5 Electrical properties 60851-6 Thermal properties

#### **Advantages**

Round wires have excellent wind ability in all applications and good ageing resistance in oil for transformers and in silicon oil compatible with impregnation resin.

Thermal index is 200 IEC 60172.

#### **UL** approval

OBMW2.E323336

#### **Appearance**

Slight color variations are raw material or processrelated and have no influence on the technical properties of the wire.

The product properties set forth in this data sheet are based on the results of testing of typical material produced by the company VT GROUP. Some variation in product properties is typical. Comments or suggestions relating to any subject other than product properties are offered only to call the end-user's or other person's attention to considerations which may be relevant in the independent determination of the use and/or manner of use of product. VT Group does not claim or warrant that the use of its product will have the results described in this data sheet or that the information provided is complete, accurate or useful. The user should test the product to determine its properties and its suitability for the intended use. VT GROUP expressly disclaims any liability for any damage, harm, injury, cost or expense to any person resulting directly or indirectly from that person's reliance on any information contained in this data sheet. Nothing contained in this data sheet constitutes representation or warranty as to any matter whatsoever. VT GROUP makes no warranties whatsoever in this data sheet, expressed or implied, including any implied warranty or fitness for a particular use or purpose. VT GROUP shall in no event be liable for incidental, exemplary, punitive or consequential damages.

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Unit	Value	Test norm
	No cracks	IEC 60851-6
	No cracks	IEC 60851-6
	No failure shall occur	IEC 60851-6
%	IEC 60317-0-1	IEC 60851-3
degree	IEC 60317-0-1	IEC 60851-3
degree	Max. 5	IEC 60851-3
	No crack	IEC 60851-3
	No crack	IEC 60851-3
	No crack	IEC 60851-3
	No loss of adhesion	IEC 60851-3
V	IEC 60317-0-1	IEC 60851-5
	% degree degree	No cracks No failure shall occur  % IEC 60317-0-1 degree IEC 60317-0-1 degree Max. 5 No crack No crack No crack No crack No crack

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