



SINOALUM ELT 200

Rectangular enamelled conductor of copper, heat resistant, class 200

Product name:

Damid 200

Specifications:

IEC 60317-29

Class: 200

Temperature index $\geq 200^{\circ}\text{C}$

Heat shock: $\geq 220^{\circ}\text{C}$

Conductor material:

EN 1977 - ETP1 CW003 A

EN 1977 - ETP CW004A

ASTM B49 - ETP C11000/C11040

Insulation:

Basecoat: THEIC-modified polyester or polyesterimide

Overcoat: Polyamide-imide

Properties:

- High heat resistance
- Very good resistance to transformer oils
- Very good resistance to typical solvent
- Freon resistant
- Excellent resistance to mechanical stress

Field of application:

- Electric motors
- Rotor coils
- Transformers
- Chokes

Dimension range:

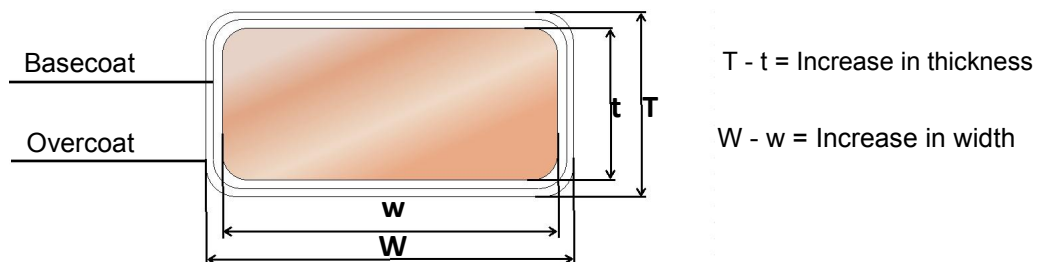
Damid 200 - Gr 2 1 - 100 mm²

Standard packaging:

K355, K500, VM630

Shelf life:

6 years, under normal ambient conditions



Increase in dimension due to insulation = 0,12-0,17 mm

Conductor corner radius

Nominal thickness of conductor (mm)		Corner radius (mm)	Tolerance
Over	Up to and including		
-	1,00	0,5 nominal thickness	+/- 25%
1,00	1,60	0,50	+/- 25%
1,60	2,24	0,65	+/- 25%
2,24	3,55	0,80	+/- 25%
3,55	-	1,00	+/- 25%

Conductor tolerances

Nominal width or thickness of the conductor (mm)		Tolerance +/- (mm)
Over	Up to and including	
-	3,15	0,030
3,15	6,30	0,050
6,30	12,50	0,070
12,50	-	0,100

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Properties for ELT 200

Main characteristics	Test method	Interval	Acceptance criteria	Test values for a Damid 200 sample (5,60 x 3,55 mm)
Thermal properties				
Heat shock	IEC 60851 - 6.3	All sizes	$\geq 220^{\circ}\text{C}$, 6 x t	$\geq 220^{\circ}\text{C}$, 6 x t
Temperature index	IEC 60172	¹⁾	$\geq 200^{\circ}\text{C}^2)$	$\geq 200^{\circ}\text{C}^2)$
Electrical properties				
Conductor resistance	IEC 60851 - 5.3	³⁾	0,01724 $\Omega\text{mm}^2/\text{m}$	0,01724 $\Omega\text{mm}^2/\text{m}$
Conductivity	1/R	³⁾	$> 58 \text{ m}/(\Omega\text{mm}^2)$	$> 58 \text{ m}/(\Omega\text{mm}^2)$
Breakdown voltage	IEC 60851 - 5.4	All sizes	2,0 kV	$> 5,0 \text{ kV}$
Mechanical properties				
Elongation	IEC 60851-3.3	$1,00 \leq t \leq 2,50$	$\geq 30\%$	-
		$t > 2,50$	$\geq 32\%$	40%
Springback angle	IEC 60851-3.4	All sizes	$\leq 5^{\circ}$	$4,1^{\circ}$
Flexibility	IEC 60851-3.5	width $\leq 10 \text{ mm}$	4 x width	3 x width
		width $> 10 \text{ mm}$	5 x width	4 x width
		All sizes	4 x thickness	3 x thickness
Adherence	IEC 60851-3.5	All sizes	15% stretch, Loss of adhesion $< 1 \text{ x width}$	30% stretch
-Cut and stretch				

1. Test conducted on round wire, 1,00 mm grade 2, according to IEC 60172

2. According to supplier certificate

3. Dependence of dimension is expressed by the unit

Values above are for information only. All values noted are typical and can vary between lots and dimensions.

Dimension range

