

SINOALUM ETL200 AL

Rectangular enamelled conductor of aluminium, heat resistant class 200

Product name:

ETL200 AL - Gr 2

Specifications:

Internal ouwei (corresponding to IEC 60317-29)

Conductor material:

EN 1715 - EN AW1370 [Al 99.7]

Class: 200

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

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

Insulation:

Basecoat: THEIC-modified polyester or polyesterimide

Overcoat: Polyamide-imide

Properties:

- High heat resistance
- Allows lightweight designs
- Very good resistance to transformer oil
- Very good resistance to typical solvent
- Freon resistant

Field of application:

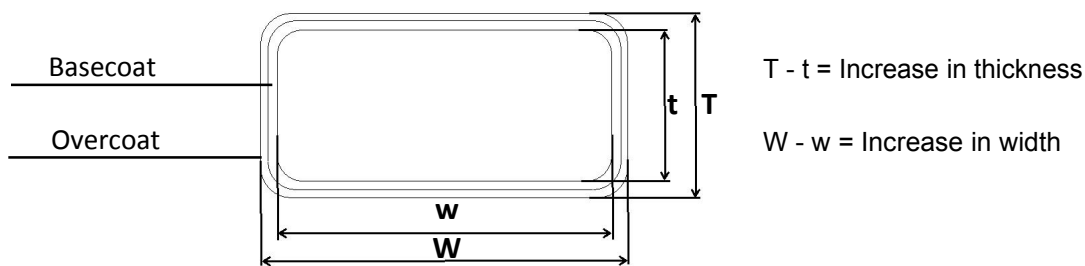
- Oil-filled transformers
- Dry transformers
- Small transformers
- Welding transformers

Standard packaging:

VM630

Shelf life:

10 years, under normal ambient conditions



Increase in dimension due to insulation = 0,10-0,20 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	5,60	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	16,00	0,100

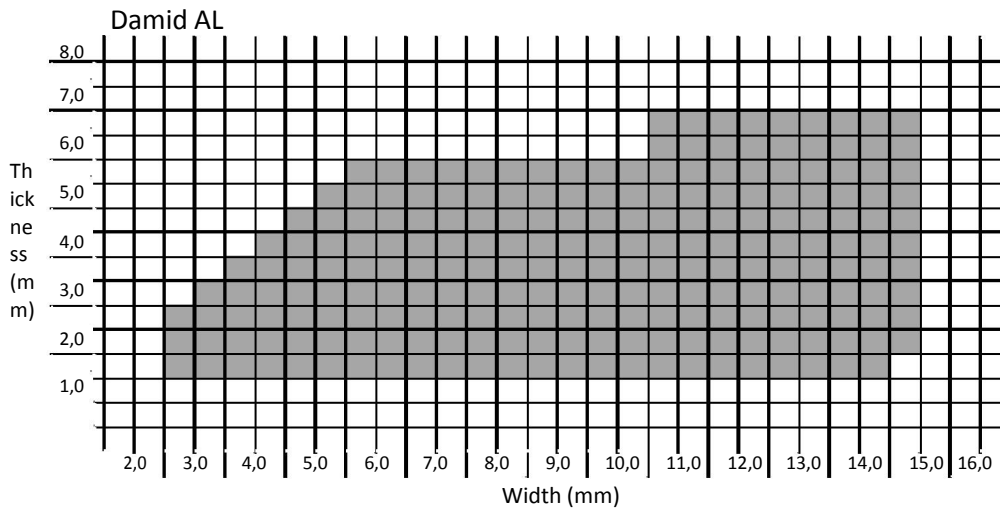
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Properties for ETL 200 AL

Main characteristics	Test method	Interval	Acceptance criteria	Test values for a Damid 200 AL sample (8,00 x 3,00)
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⁾	0,02817 $\Omega\text{mm}^2/\text{m}$	0,02817 $\Omega\text{mm}^2/\text{m}$
Conductivity	1/R	³⁾	$> 35,5 \text{ m}/(\Omega\text{mm}^2)$	$> 35,5 \text{ m}/(\Omega\text{mm}^2)$
Breakdown voltage	IEC 60851 - 5.4	All sizes	2,0 kV	4,2 kV
Mechanical properties				
Flexibility	IEC 60851-3.5	width $\leq 10 \text{ mm}$	4 x width	3 x width
- Bending edgewise		width $> 10 \text{ mm}$	5 x width	4 x width
- Bending flatwise		All sizes	4 x thickness	3 x thickness
Adherence	IEC 60851-3.5	All sizes	10 % stretch, Loss of adhesion $< 1 \text{ x width}$	15 % stretch
-Cut and stretch				
<ol style="list-style-type: none"> 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



The technical data included is up to date at the time of printing. OUWEI reserves the right to make any amendments deemed necessary