



DAMID 200 AL

Rectangular enamelled conductor of aluminium, heat resistant class 200

Product name:

Damid 200 AL - Gr 2

Specifications:

IEC 60317-73

UL approval:

Approved: Damid 200

UL-file no: E101843

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:

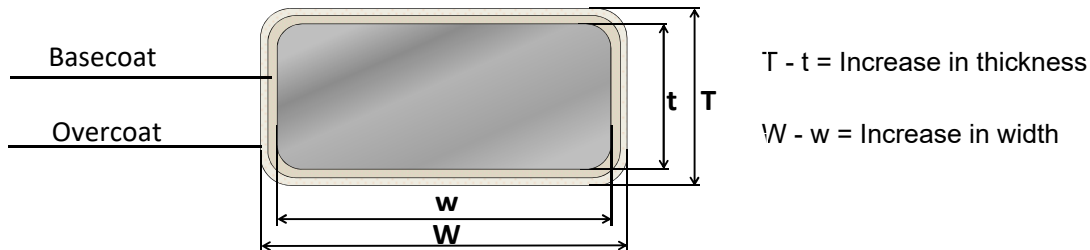
VM630

Shelf life:

10 years, under normal ambient conditions

Conductor material:

EN 1715 - EN AW1370 [Al 99.7]



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	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

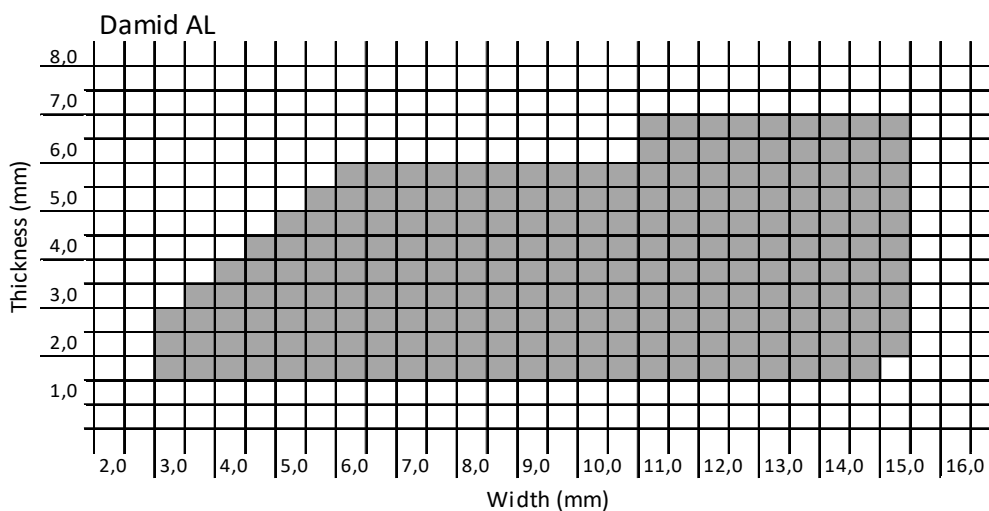
DAMID 200 AL

Rectangular enamelled conductor of aluminium, heat resistant, class 200

Properties for DAMID 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 -Cut and stretch	IEC 60851-3.5	All sizes	10 % stretch, Loss of adhesion $< 1 \text{ x width}$	15 % 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



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

Ed.A(4)



DAMID 200 AL

Round enamelled winding wire of aluminium, heat resistant, class 200

Product name:

Damid 200 AL - Gr 2

Specifications:

IEC 60317-25

UL approval:

Approved: Damid 200

UL-file no: E101843

Class: 200

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

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

Conductor material:

EN 1715 - EN AW1370 [Al 99.7]

Insulation:

Basecoat: THEIC-modified polyester or polyesterimide

Overcoat: Polyamide-imide

Properties:

- High heat resistance
- Suitable in lightweight designs
- Very good resistance to transformer oils
- Very good resistance to typical solvent
- Freon resistant

Field of application:

- Lightweight designs
- Electric motors
- Oil-cooled transformers
- Dry-insulated transformers
- Welding transformers

Dimension range:

Damid 200 AL - Gr 2: $0,315 \leq \varnothing \leq 6,000$

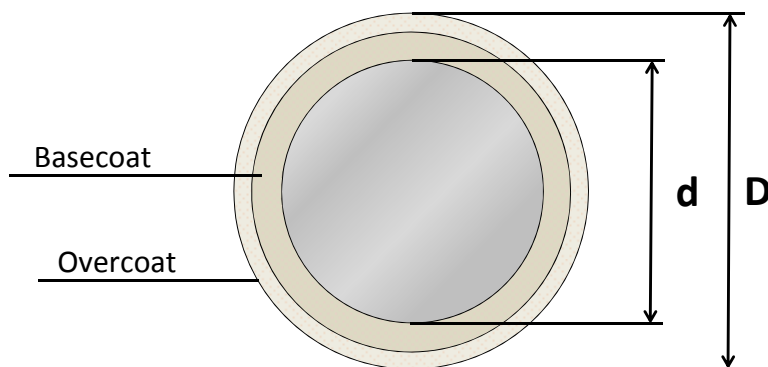
Standard packaging:

$0,315 \leq \varnothing < 0,900$ A250/400

$0,900 \leq \varnothing \leq 6,000$ A400/630

Shelf life:

10 years, under normal ambient conditions



$D - d = \text{Increase}$

DAMID 200 AL

Round enamelled conductor of aluminium, heat resistant, class 200

Properties for DAMID 200 AL

Main characteristics	Test method	Property values	Test values for a Damid 200 AL sample (2,00 mm, Gr2)
Thermal properties			
Heat shock	IEC 60851 - 6.3	≥ 220°C	≥ 220°C
Cut-through	IEC 60851 - 6.4	≥ 320°C	OK at 340°C
Temperature index	IEC 60172	≥ 200°C ¹⁾	≥ 200°C ¹⁾
Electrical properties			
Conductor resistance	IEC 60851 - 5.3	0,02817 Ωmm ² /m	0,02817 Ωmm ² /m
Conductivity	1/R	> 35,5 m/(Ωmm ²)	> 35,5 m/(Ωmm ²)
Breakdown voltage	IEC 60851 - 5.4	IEC 60317-0-3 ²⁾	9,0
Mechanical properties			
Elongation	IEC 60851-3.3	IEC 60317-0-3 ²⁾	25%
Flexibility	IEC 60851-3.5	Mandrel wind. ³⁾	3 x Ø
		Stretching ⁴⁾	min 15 %
Adherence	IEC 60851-3.5	Jerktest ⁵⁾	No loss of adhesion
		Peeltest ⁶⁾	min. 110 ⁷⁾

1. According to supplier certificate

2. Values depend on dimension

3. Up to an including 1,60 mm

4. Over 1,60 mm

5. Up to and including 1,00 mm

6. Over 1,00 mm (internal LWW standard)

7. Revolutions x nominal dimension

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

The technical data included is up to date at the time of printing.

LWW reserves the right to make any amendments deemed necessary

Ed.A(4)

LWW group 

dahréntråd 
Part of LWW Group

isodraht 
Part of LWW Group

ślaska 
Part of LWW Group

利里达尔线材
liljedahl wire 
Part of LWW Group