

# SINOALUM ETL200 AL

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

**Product name:**  
ETL 200 AL - Gr 2

**Specifications:**  
IEC 60317-25

**Insulation:**  
Basecoat: THEIC-modified polyester or polyesterimide  
Overcoat: Polyamide-imide

**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]

**Shelf life:**  
10 years, under normal ambient conditions

**Properties:**

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

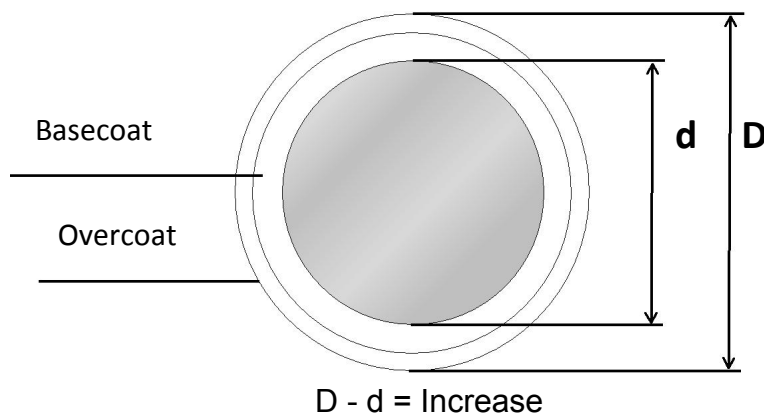
**Field of application:**

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

**Dimension range:**  
ETL 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 |



# SINOALUM ETL 200 AL

Round enamelled conductor of aluminium, heat resistant, class 200

## Properties for ETL 200 AL

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

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. OUWEI

reserves the right to make any amendments deemed necessary