



DASOL 155

Round enamelled winding wire of copper, solderable, class 155

Product name:

Dasol 155 - Gr 1

Dasol 155 - Gr 2

Specifications:

IEC 60317-20

UL approval:

Approved: Dasol 155

UL-file no: E101843

Class: 155

Temperature index ≥ 155 °C

Heat shock: ≥ 175 °C

Conductor material:

EN 1977 - ETP1 CW003 A

EN 1977 - ETP CW004A

ASTM B49 - ETP C11000/C11040

Insulation:

Basecoat: Polyurethane

Properties:

- Very good mechanical resistance
- Suitable in high speed winding machines
- Directly solderable

Field of application:

- Small motors and transformers
- Magnetic coils
- Control equipment

Dimension range:

Dasol 155 Gr 1 $0,180 \leq \varnothing \leq 0,750$ mm

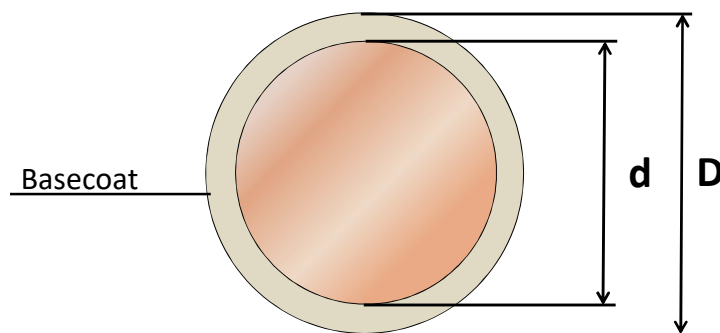
Dasol 155 Gr 2 $0,180 \leq \varnothing \leq 0,750$ mm

Standard packaging:

$0,180 \leq \varnothing \leq 0,750$ mm K355, A250/400
A315/500, A400/630

Shelf life:

8 years, under normal ambient conditions



D - d = Increase

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Properties for DASOL 155

Main characteristics	Test method	Acceptance criteria	Test values for a Dasol 155 sample (0,500 mm, Gr2)
Thermal properties			
Heat shock	IEC 60851 - 6.3	$\geq 175\text{ }^{\circ}\text{C}$	$\geq 175\text{ }^{\circ}\text{C}$
Cut-through	IEC 60851 - 6.4	$\geq 200\text{ }^{\circ}\text{C}$	$> 200\text{ }^{\circ}\text{C}$
Solderability	IEC 60851 - 4.5	390 °C	OK
Temperature index	IEC 60172	$\geq 155\text{ }^{\circ}\text{C}^{1)}$	$\geq 155\text{ }^{\circ}\text{C}^{1)}$
Electrical properties			
Conductor resistance	IEC 60851 - 5.3	0,01724 $\Omega\text{mm}^2/\text{m}$	0,01724 $\Omega\text{mm}^2/\text{m}$
Conductivity	1/R	$> 58\text{ m}/(\Omega\text{mm}^2)$	$> 58\text{ m}/(\Omega\text{mm}^2)$
Breakdown voltage	IEC 60851 - 5.4	IEC 60317-0-1 ²⁾	$> 6,5\text{ kV}$
Mechanical properties			
Elongation	IEC 60851-3.3	IEC 60317-0-1 ²⁾	$> 38\%$
Springiness	IEC 60851-3.4	IEC 60317-0-1 ²⁾	$< 42^{\circ}$
Flexibility	IEC 60851-3.5 Mandrel wind.	1x \emptyset	15 % + 1x \emptyset

1. According to supplier certificate

2. Values depend on dimension and grade

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