

BAWATHERM 1001

This is a Class C THEIC modified imide based wire enamel, wires coated with BAWATHERM 1001 has resistance to refrigerants R-12 / R-22.

It can be used as topcoat or a Sole coat. It is a very good replacement of traditional polyamide-imide enamel and its cresol soluble and free from NMP so application made easy.

| PHYSICAL PROPERTIES | | |
|--|-------------|-----------------------------|
| SOLID CONTENT % (lg/1h/180 ⁰ C) | * VISCOSITY | PROPOSED WIRE RANGE (in mm) |
| 27±1 | 300-500 | UPTO 0.8 |
| 34±1 | 1000-1500 | 0.8 - 1.6 |

- Viscosity by Viscometer/Brook field at 23° C in cps
-

| Tan Delta | |
|--------------------------------|---------|
| Bending Point °C (solid block) | 215-225 |

Please note that all above-mentioned values may be changed according to the machine.

| | | |
|---------------------|--|--|
| RECOMMENDED THINNER | Thinner PW/E | |
| PACKING : | Bawatherm 1001 Thinner PWE | 200 Kg in mild steel 21 Kg in mild steel drums. |
| SHELF LIFE | One year from date of manufacturing if stored in sealed container (at room temperature 25 °C). | |

| MECHANICAL PROPERTIES | |
|---------------------------------------|----------|
| Diameter of bare wire | 0.500 |
| Build up of enamel | 0.065 mm |
| Elongation | 32% |
| Flexibility | |
| Mandrel winding (15% pre-stretch 1xd) | OK |
| Jerk test | OK |
| Peel test (nxd) | - |
| Abrasion (AV) (Unidirectional) | 10.0 |

| THERMAL PROPERTIES | |
|--------------------|-----------------------------|
| Cut through | 360 ⁰ C /2 min |
| Heat shock | 2dx240 ⁰ C/30min |

| ELECTRICAL PROPERTIES | | |
|-----------------------|-------|--------|
| Break Down Voltage kV | at RT | 8.5 kV |

| CHEMICAL PROPERTIES | |
|---------------------|----|
| Solvent Resistance | |
| Pencil Hardness | |
| Initial | 3h |
| Std. Solvent | 2h |

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