

CELEC P100

POWER CABLE PROTECTIVE PRODUCT



Specialities

Description

Repsol offers a carefully selected choice of products (greases) for protection of low-, medium- and high-voltage power cables with the generic name CELEC. The range of products CELEC are complex product mixtures based on mainly oil-derived products (petrolatum) which are modified with different additives that grant them excellent properties of anchorage to metallic surfaces, electrical isolation and metal protection outdoors, even in extreme conditions, which in addition to its high durability assures a correct protection of the power cables during long periods.

Based in Norm UNE EN 50326, CELEC P100 is a type B grease applied with heating and has the designation 20B105.

Applications

This grease acts as an electrical insulator, anti-corrosion and anti-wear agent on bare overhead lines conductors made of aluminium, aluminium alloy, steel wires or a combination of these wires (ACSR).

Technical Characteristics *

| | UNITS | METHOD | CELEC P100 |
|------------------------------------|-----------|--|------------|
| Melting Point | °C | ASTM D127 | 105-115 |
| Drop Point | °C | ASTM D566 / ISO 2176 EN 50326 (6.5) | ≥ 105 |
| Penetration at 25°C | mm/10 | ASTM D937 / ISO2137 EN 50326 (6.8) | 20-45** |
| Viscosity at 120°C | cSt | ASTM D445 | ≤ 25 |
| Fluency and Separation (50°C, 24h) | - | IEC-811-5-1 | Pass |
| Dielectric constant at 23°C | - | ASTM D-150 | ≤ 2.3 |
| Volume Resistivity at 23°C | Ohm cm | ASTM D-257 | > 1E+14 |
| Aging/Corrosion | | EN 50326 (6.12.2) | Pass |
| Flexibility and folding at -20°C | | IT-LAB-141 EN 50326 (6.9) | Pass |
| Colour | - | ASTM D-1500 | L5,5 |
| Acidity index | mg KOH/gr | IT-LAB-185 EN 50326 (6.10.3) | ≤ 0.5 |
| Flash Point O.C. | °C | ASTM D-92 | ≥ 280 |

** The penetrability test does not meet the criteria established in the aforementioned standard to being a product in form of plates.

Presentation

5 kg slabs in 25 kg boxes.

*Unless otherwise stated, the values given in the technical characteristics should not be considered as specification and are only intended as indicators.

Specialities Technical Data Sheet. Version 5. November 2015.

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