Technical Data Sheet

ZBEC

Zinc dibenzyl dithiocarbamate
CAS Number: 14727-36-4
Molecular weight: 610.18
Molecular formula: C_{36}H_{28}N_{2}S_{4}Zn

PRODUCT INFORMATION

<table>
<thead>
<tr>
<th>PRODUCT SPECIFICATIONS</th>
<th>GRANULES</th>
<th>OIL POWDER</th>
<th>POWDER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>White granules</td>
<td>White oil powder</td>
<td>White powder</td>
</tr>
<tr>
<td>Initial Melting Point</td>
<td>°C min</td>
<td>180.0</td>
<td>180.0</td>
</tr>
<tr>
<td>Zinc content</td>
<td>%</td>
<td>10.0-12.0</td>
<td>10.0-12.0</td>
</tr>
<tr>
<td>Loss on drying</td>
<td>% max</td>
<td>0.30</td>
<td>0.40</td>
</tr>
<tr>
<td>Residue on sieve (63 μm)</td>
<td>% max</td>
<td>-</td>
<td>0.50</td>
</tr>
<tr>
<td>Residue on sieve (150μm)</td>
<td>% max</td>
<td>-</td>
<td>0.10</td>
</tr>
<tr>
<td>Oil content</td>
<td>%</td>
<td>-</td>
<td>0.0-2.0</td>
</tr>
</tbody>
</table>

Typical properties

Density  g/cm³    1.42

Packaging

Bag    25kg (55 lbs)
Pallet 500kg or 600kg (1102 lbs or 1323 lbs)

FUNCTION

ZBEC is a safe-processing secondary accelerator and can be used as a primary accelerator in latex.
APPLICATIONS AND PROPERTIES

- ZBEC is used as a primary or secondary ultra-accelerator in NR, IR, BR, SBR, NBR, HR, EPDM and their latexes.
- Product has less accelerating effects than ZDMC and ZDEC.
- Effectively used in both natural and synthetic latexes for faster curing under normal (low) temperatures than ZDMC and ZDEC, with less scorching and blooming.
- ZBEC has a high resistance to hydrolysis and low solubility in rubbers.
- Recognized to have low nitrosamine potential.
- Used in sheeting, extrusions and latex.
- Soluble in CS₂, benzene, chloroform, alcohol, diethyl ether.
- Insoluble in water and low concentration alkali.
- ZBEC is regulated for use under the following sections of FDA 21 CFR: 175.105 – Components of Adhesives. 177.2600 – Rubber Articles Intended for Repeated Use in Food Contact.

STORAGE

Material should be stored in a tightly closed container in a cool, dry, well ventilated area. Avoid exposure to direct sunlight. The maximum recommended storage life is 2 years when stored under normal conditions.

HANDLING PRECAUTIONS

For detailed information on toxicological properties and handling precautions, please refer to the current Safety Data Sheet.