

**NEEL OVERSEAS**

Mfg.of : Pigment Powder - Emulsion

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## Transparent Zinc Oxide (Zinc carbonate)

**Transparent Zinc Oxide** is an excellent activator and accelerator for natural rubber, synthetic rubber and other plastics like EVA, LDPE, HDPE, PVC. It has a very high surface area and is especially useful for transparent products.

**Transparent Zinc Oxide** has the following benefits when used for **Rubber/EVA/LDPE/HDPE/PVC** products:

- Transparent Zinc oxide has very **good dispersion** due to its very small size.
- **Reduced cost** compared to zinc oxide
- **Less quantity of** transparent zinc is used in footwear and rubber/EVA sheet products
- **Powerful Activation** of the cure due to its very large surface area.
- Specially useful for transparent products like **surgical gloves, condom, balloons etc.**
- **Increase thermal conductivity** of the product.
- **Improves dimensional stability** of the product.
- Improves mechanical properties like **tensile and modulus strength, tear resistance and abrasion resistance (conveyor belts etc).**

### General Properties

| General Properties        |        |
|---------------------------|--------|
| Zinc content (%)          | 57 ± 2 |
| Content as zinc oxide (%) | 72 ± 2 |

|                                  |                |
|----------------------------------|----------------|
| Surface Area (m <sup>2</sup> /g) | ~ 50           |
| Bulk Density (freely settled)    | ~ 0.3-0.4      |
| Moisture (%)                     | < 0.1          |
| Sulphate Content (%)             | < 0.001        |
| Lead Content (%)                 | < 0.1          |
| Color                            | Creamish White |

### Usage Recommendations

1. Equal to the amount of zinc oxide currently added and replace zinc oxide completely. For example- if currently the customer is adding 2 kg of zinc oxide in the batch then replace the added zinc oxide completely by 2 kg of transparent zinc.
2. For new products, following dosage is recommended:

| Recommended dosage            |              |
|-------------------------------|--------------|
| Transparent products          | 1.0-2.5 phr  |
| Translucent products          | 2.5-5.0 phr  |
| Colored products              | 3.5-5.0 phr  |
| Improved thermal conductivity | 8.0-10.0 phr |

*(The above is only an indicative formulation and the customer is requested to formulate their own individual formulation for their application.)*

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### Storage Guidelines

Transparent Zinc Oxide is supplied in powder form in 25 kg packing bags.

Transparent Zinc Oxide should be stored in dry conditions.