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ZINC PRODUCTS
-SPECIALTY ZINC PRODUCTS-

9930 ZINC OXIDE TRANSPARENT
- Precipitated Basic Zinc Carbonate-

PRODUCT DESCRIPTION:

Zinc Oxide Transparent is an accelerator activator of extremely fine particle size, particularly suited for transparent rubber goods. It can be employed in natural and synthetic rubbers and also as an acid acceptor in polychloroprene adhesives where transparency is required. It is especially useful for rubber articles which must be practically free from heavy metal traces.

TYPICAL PROPERTIES:

Form.....	white powder
Specific Gravity	3.5
Particle Size.....	99% thru 200 mesh
Zinc, as Zinc Oxide.....	70 - 72%
Ignition Loss	26 - 28%
Sulfate Content.....	0.3% max
Chloride Content.....	0.1% max
Lead Oxide Content	20 ppm max
Copper Content	5 ppm max
Manganese Content.....	10 ppm max
Cadmium Content	20 ppm max

APPLICATIONS :

Zinc Oxide Transparent is easy to incorporate and has very good dispersion characteristics in rubber compounds. Due to its small particle size, it causes a powerful activation of the cure.

Zinc Oxide Transparent raises compound viscosities and, at high levels of addition, increases thermal conductivity and has a stiffening effect, improving the dimensional stability of extrusions and open cured goods.

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APPLICATIONS (continued):

Typical phr levels of addition are:

Transparent Articles	1.0 – 2.5 phr
Translucent Articles	2.5 – 5.0 phr
Colored Articles	3.5 – 5.0 phr
Improving Dimensional Stability.....	8.0 – 10.0 phr
Improving Thermal Conductivity	8.0 – 10.0 phr

COMPOUND PROPERTIES:

Zinc Oxide Transparent does not cause color changes in vulcanizates and does not bloom. Increasing levels improves the mechanical properties of rubber goods, above all modulus, tear resistance and abrasion resistance.

As an acid acceptor in polychloroprene adhesives, it is used to achieve long open-tack times in the absence of magnesium oxide and regular zinc oxide grades. The latter two products reduce open time by reacting with Terpene Phenolic and Phenolic Resins, which are typical tackifiers for polychloroprene adhesives.