

ELASTOSET

NOVEL AND UNIQUE ADDITIVE TO STABILIZE EPDM COMPOUND & REDUCE COMPRESSION SET

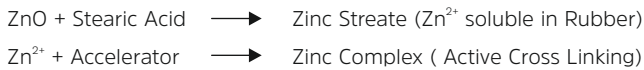
Elastoset is food contact approved cure stabilizer and compression set reduction additive consisting of an activated polymer which gives excellent mixing and dispersion characteristics.

Elastoset will overcome any adverse effects of using high doses of Calcium Oxide for moisture removal in Rubber Compounds. Innovox ultra-fine Calcium Oxide is used as desiccant and Acid Scavenger in Rubber and Elastomer compounds, Which can contain moisture either from fillers incorporated in the formulaion or by moisture absorption from high humidity environment.

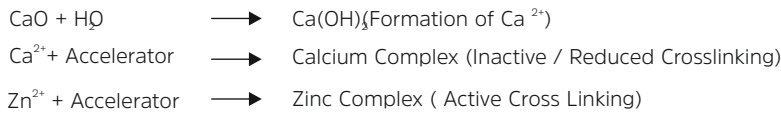
Calcium Oxide (CaO) combines with moisture to form Calcium Hydroxide. The reaction chemically binds moisture and non reversible up to 512°C. The reaction product, Calcium Hydroxide is a powder which incorporates easily and invisibility into the compound, but will also perform as an Acid Scavenger.

In higher humidity environments, or where High Moisture fillers are used, Higher level of Innovox addition may be required to overcome porosity. This can sometimes lead to reduced Vulcanization or increased Compression Set values because of competition between Zinc and Calcium for reaction with Accelerators.

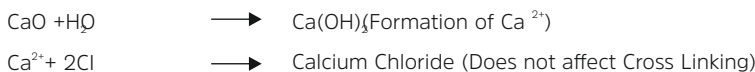
Normal Reaction



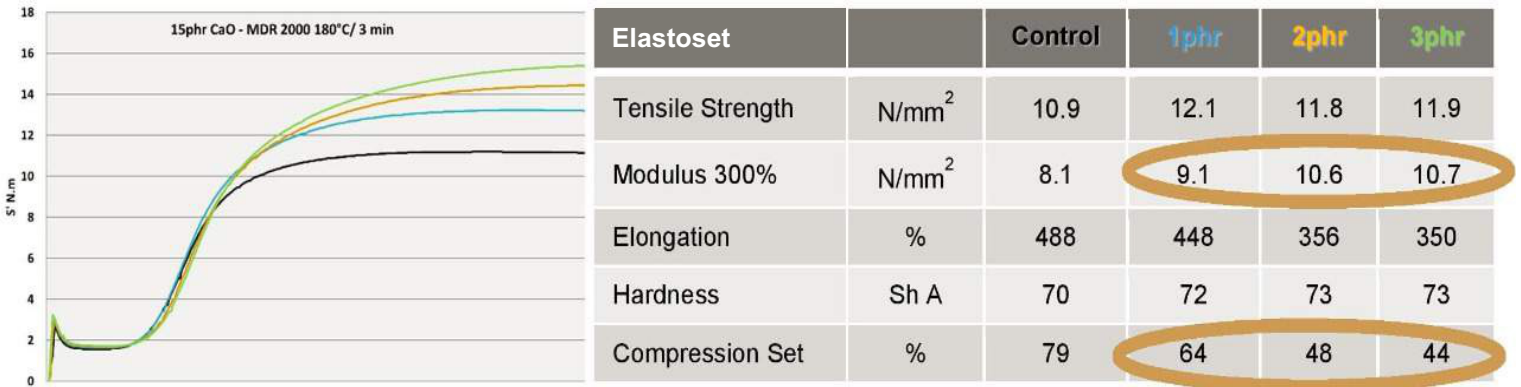
With Excess Calcuim Oxide-Competition



With ELASTOSET - No Competition



Black general purpose EPDM profile with high (15Phr.) Calcium Oxide Loading- result using Elastoset.



Applications:

Elastoset is typically used combination with innovox (Calcium Oxide) in EPDM usually in applications such as Extrusions and continuous Pressureless vulcanization method (e.g. UHF, LCM or Hot-Air vulcanization).

These Application may have high moisture level in the compound, often from high moisture fillers (often lower quality) or high atmospheric humidity during production or storage.

Elastoset plus Innovox can be used to combat the effect of high moisture by enabling increased Innovox addition without affecting finished product properties.

Addition:

Dose is usually between 0.5 and 1phr, or 10-20% of Calcium Oxide addition level. Elastoset should be added at the same point as Innovox. Additon point can be varied to combat the effect of Moisture in Fillers or Atmospheric moisture on High Humidity Environments.

For High Moisture Fillers, Innovox and Elastoset should be added at the start of the Mixing.

In High Humidity, Moisture may often be absorbed if compound is stored and so Innovox and Elastoset can be added near the final mix to overcome this.

Our Technical Team can help with advice on dose and addition point.

Properties:

For product specification see the relevant sales specification and for safety information, see the Material Saftey Data Sheet. Both are available on request.

Packing:

Elastoset available in 15 Kg sacks.

Storage:

Elastoset must be stored inside, in clean dry conditions and unopened packaging. If stored correctly, Elastoset has a minimum shelf life of 12 months from data of production.

