

Frequently Asked Questions Sheet

Innovox[®] MB

Calcium Oxide Masterbatch

Innovox MB is a desiccant masterbatch consisting of ultra-fine particles of calcium oxide bound in an EPDM granule, which gives exceptional mixing and dispersion characteristics.

Calcium oxide is used as a desiccant and acid scavenger in rubber and elastomer compounds, which can contain moisture either from fillers incorporated in the formulation or by moisture absorption from high humidity environments.

Calcium oxide, CaO combines with moisture to form Calcium hydroxide, Ca(OH)₂. This reaction chemically binds moisture. The reaction product - Calcium hydroxide - is a powder which incorporates easily and invisibly into the compound, but will also perform as an acid scavenger.

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Q: What is a typical addition level?

A: Addition level will depend on the moisture levels within the compound. In practice, the typical dose rate for Innovox MB would be around 5 - 6 phr. If you would like advice on addition levels, please contact us.

Q: What is typical point of addition on the plant?

A: Typically, Innovox MB is added at the start of the mixing process. For high humidity environments, moisture may often be absorbed if compound is stored, and so Innovox MB can be added near the final mix to overcome this. If you would like advice on addition point, please contact us.

Q: Can Innovox be used in both Banbury and open mill mixing?

A: Innovox MB is an EPDM bound granule, so it is suitable for both Banbury and open mill mixers. Innovox MB is usually supplied in weight defined EVA low melt sachets, e.g. 1kg. These are ideal for use with a Banbury type mixer. For open mill mixers, we can supply the product in 25kg sacks. If you would like advice on product choice please contact us.

Q: Can you supply a granule?

A: Yes - Innovox MB is an 80% CaO and 20% EPDM bound granule. Please contact us for details.

Q: I have no problem with my current supplier so why should I change product to Innovox?

A: Leading compounders have found that by changing to Innovox, they can produce better quality compound with greater consistency and fewer scrap or quality rejects. More compounders are recognising the Innovox advantage, and specify Innovox in all new and existing formulations.

Q: Do any other compounders use Innovox?

A: Yes, Innovox is used by leading compounders worldwide. Ask us for details of reference customers.

Q: Is Innovox suitable for all rubber applications ?

A: Innovox is mainly used in sulphur cured systems including EPDM, although it is suitable for most applications where there is an issue with moisture or acidity. Please contact us for recommendations regarding your proposed use.

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