

FAQ's

This document covers the following products:

- ✓ Innovox® FG
- ✓ Innovox® 95
- ✓ Innovox® 95F
- ✓ Innovox® 97

Innovox® is a powder consisting of ultra-fine particles of calcium oxide, which gives excellent 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.



Q: What is a typical addition level?

A: Addition level will depend on the moisture levels within the compound. In practice, typical dose rate for Innovox® FG or 95 would be around 5 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® 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® can be added near the final mix to overcome this. If you would like advice on addition point please contact us.

Q: Can you supply a granule?

A: We don't currently make a granule. However we can supply 800gm sachets as a direct replacement for a 1kg sachet of granules. We are developing granule products, so please contact us for details.

Q: Do any other compounders use Innovox®?

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

Q: Why should I change from my current supplier's product to Innovox®? I have no problem with my current supplier.

A: Leading compounders have found that by changing to Innovox®, they 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: Can Innovox be used in both Banbury and open mill mixing?

A: Innovox 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 are developing Innovox® MG. If you would like advice on product choice please contact us.

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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FAQ's

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Q: Are there any issues in combining Innovox® with magnesium oxide or calcium carbonate filler?

A: There are no problems with using Innovox® in combination with either magnesium oxide or calcium carbonate. If you would like advice on either, please contact us.

Q: Have you done technical testing on Innovox®? Can you prove it works as well as you say?

A: We have conducted extensive testing on Innovox® with external laboratories, such as Artis and ACE Laboratories and can provide test reports on request. We can also provide reference customer details within your own field of application. Ask to see our test reports or contact us for advice.

Q: Do we need to adjust the formula if we change to Innovox®?

A: Innovox® can replace powder or granules as a direct 1:1 replacement and will perform better in both cases. If using granules, you can use 20% less Innovox® and still achieve better results, as Innovox® is 100% calcium oxide powder whereas granules are approximately 80% calcium oxide powder and 20% inert binders. Ask to see our test reports or contact us for advice.

Q: Is Innovox® FDA approved? Is it safe for food contact?

A: Calcium oxide is classified as a Generally Recognized As Safe (GRAS) substance by the FDA. Innovox® FG is 100% calcium oxide powder.

Innovox® 95F is suitable for food contact applications, it is calcium oxide powder combined with food contact approved dispersion additives.

Q: Where is Innovox® made?

A: Innovox® 95 is made from calcium oxide produced in our own lime kilns on our site at Melton Ross.

Innovox® 97 is produced by one of our global production partners under licence. Type Melton Ross into a web browser for a satellite view of our site. For further information, please contact us.

Q: What are your standard packaging sizes and can I have a bespoke size or container?

A: Innovox is usually supplied in weight defined EVA low melt sachets, e.g. 1kg. We offer other sizes and can also make special or bespoke packs. Ask your distributor for details or please contact us.

Advice and Consultancy

Our Distribution Partners and Innovations Team can help with advice on the use of Innovox® and for a more comprehensive service, we offer Innovation consultancy which can provide mix design, safety and handling solutions.

For more information, please contact us.



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