

Vulkalent® B/C

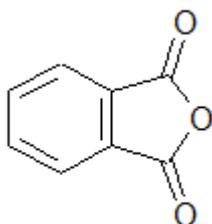
Specialty and Standard Chemicals

Function

Vulkalent® B/C is a retarder which, because it is non-staining, is used mainly for light-colored rubber compounds.

Product description

Composition: phthalic anhydride



Appearance: light yellow to white powder, oil coated

Density: approximately 1.5 g/cm³

<u>Property</u>	<u>Nominal value</u>	<u>Unit</u>	<u>Test method</u>
Assay	≥ 89.0	%	329
Oil content	5.0 ± 0.5	%	332
Ash content	≤ 4.5	%	ASTM D 4574
Sieve residue (0.063 mm) (measured before oil treatment)	≤ 5.0	%	DIN EN ISO 4610

Use

- Mode of action:** Vulkanent® B/C extends the scorch time and therefore the flow time. Its retarding effect is considerably less strong, however, than the effects of the retarders Vulkanent® G and Vulkanent® E/C. Vulkanent® B/C is effective in compounds containing carbon black and in light-colored compounds, but is used mainly in the latter. Its retarding effect is stronger in compounds based on natural rubber than in those based on synthetic rubbers.
- Vulkanent® B/C is effective in conjunction with such accelerators as Vulkacit® Merkapto (MBT), Vulkacit® DM (MBTS), Rhenocure® D/EG-C (DPG) and their combinations. To retard sulfenamide accelerators, such as Vulkacit® CZ (CBS), Vulkacit® NZ (TBBS) and Rhenogran® MBS-80, it is preferable to use the more powerful retarders Vulkanent® G and Vulkanent® E/C. Vulkanent® B/C is not effective in sulfurless compounds containing Rhenocure® TMTD/C. Vulkanent® B/C can be used to retard the vulcanization of compounds containing Rhenocure® 576.
- Processing:** Vulkanent® B/C disperses well in rubber compounds.
- Vulkanent® B/C extends the vulcanisation time as well as the scorch time. The time allowed for vulcanization must therefore be adjusted to the lower rate of cure.
- Vulcanizate Properties:** At normal levels (about 0.1 - 0.8 phr), Vulkanent® B/C generally has no adverse effect on the mechanical properties of the vulcanisates. At higher levels, the mechanical property values, e.g. modulus value, are slightly reduced.
- Vulkanent® B/C causes no staining.
- No blooming has been observed at levels within the recommended range.
- At the recommended levels, Vulkanent® B/C imparts no odor to the vulcanizates and does not affect their taste.
- Dosage:** Typical levels of addition based on 100 parts by weight of elastomer are:
0.1 - 1.0 phr Vulkanent® B/C, in most cases 0.5 - 0.8 phr are used.
- Application:** Vulkanent® B/C is compatible with all the vulcanization processes used in the rubber industry. It is suitable as a retarder for diene rubber, except polychloroprene. Vulkanent® B/C is used particularly for light-colored rubber goods that must not cause contact staining, e.g. light-colored, brightly colored and transparent footwear soles and colored or transparent hose or round-section strip.

Solubility

Vulkalent® B/C (active ingredient) is slightly soluble in petrol (gasoline), methylene chloride, ethyl acetate, soluble in acetone, freely soluble in ethanol and insoluble in water.

Packaging

20 kg paper bag on 700 kg skid.

Storage stability

In original closed containers under cool (approximately 25 °C) and dry conditions 365 days from date of production.

Handling

For additional handling information on Vulkalent® B/C please consult current safety data sheet.

These raw material properties are typical and, unless specifically indicated otherwise, are not to be considered as delivery specification.

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