

TECHNICAL INFORMATION

WESTCO P-44 FLAKES

WESTCO P-44 FLAKES is an improved and more efficient version of the established powdered P-44. Being free-flowing and dustless, it offers handling and environmental improvements. Additionally, increased peptizing efficiency is derived from its rapid dispersion in rubber.

Composition

2,2' dibenzamido diphenyl disulphide blended with a synergistic activator, inert carrier and organic dispersants.

Typical Properties: Appearance dark blue/green, dust-free flakes, odor slight, characteristic

Specifications

*Ash % wt. 36 - 39

*Activator % 0.36 – 0.60

*Density 1.52 – 1.58

*Actual data will be reported on Certificate of Analysis

Temperature Range: Effective in mastication at 70°C and above, best performance is obtained at 150 - 160°C.

Applications

WESTCO P-44 FLAKES is recommended to increase the efficiency of open or internal mixer mastication of natural rubber and unsaturated synthetic elastomers, where reduction of viscosity is desirable.

Recommended Dosage: 0.2 - 0.5 phr for natural rubber, 1.5 - 3.0 phr for synthetic elastomers.

Behavior In Rubbers: **WESTCO P-44 FLAKES** catalytically promotes molecular chain scission during mastication, thereby reducing mastication time and power consumption, giving lower production costs and increased production capacity. The peptizing action of **WESTCO P-44 FLAKES** is inhibited by sulphur and the viscosity of compounded stocks is therefore stable on storage. Furnace blacks, mineral fillers, zinc oxide and other materials likely to be present in first stage mixing operations or during the early part of high-speed single-stage mixing have little or no effect on performance of **WESTCO P-44 FLAKES**. Antioxidants generally retard the peptizing action and they should be added later in the cycle, when the product is used in direct compounding. The effects on rate and state of cure and on the properties of vulcanized compounds are negligible.

Advantages Compared with Powdered Peptizers

- Dustless.
- Free-flowing and suitable for automatic weighing.
- Faster dispersion.
- No dust losses during addition.
- Greater peptizing efficiency.
- Shorter mastication times and increased production efficiency.

Storage Stability: Good, under cool dry conditions. However, P-44 should be used within four years of manufacture. Some compaction may occur in storage. This is normal and will not affect the inherent performance of the product.

2/05