

Description

PEPTON 44 PRILLS is an improved and more efficient version of the established powdered PEPTON 44.

Being free-flowing and dustless, it offers handling and environmental improvements. Additionally, increased peptising 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	blue, dust-free prills
Odour	slight, characteristic
Specific Gravity	approximately 1.5
Ash % wt.	36 - 39
Activator %	0.36 - 0.60

Applications

PEPTON 44 PRILLS 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.

Temperature Range

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

Recommended Dosage

0.2 - 0.5 phr for natural rubber
1.5 - 3.0 phr for synthetic elastomers.

Behaviour In Rubbers

PEPTON 44 PRILLS catalytically promotes molecular chain scission during mastication, thereby reducing mastication time and power consumption, giving lower production costs and increased production capacity. The peptising action of **PEPTON 44 PRILLS** 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 **PEPTON 44 PRILLS**. Antioxidants generally retard the peptising 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 vulcanised compounds are negligible.

Advantages Compared with Powdered Peptisers

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

Storage Stability

Good, under cool dry conditions. However, PEPTON 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.

Packaging

Cardboard cartons with polythene liners.
Nett weight 25 kg.