

Description

PEPTON 44T PRILLS is a dust free, prill form peptiser which offers handling and environmental improvements over conventional powdered peptisers.

Composition

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

Typical Properties

Appearance	blue, dust-free prill
Odour	slight, characteristic
Specific Gravity	approximately 1.74
Ash % wt.	51.5 - 55.5
Activator %	0.19 - 0.47

Applications

PEPTON 44T PRILLS is recommended to increase the efficiency of open mill 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 - 0.4 phr for natural rubber
1.5 - 3.0 phr for synthetic elastomers

Behaviour in Rubbers

PEPTON 44T 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 44T 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 44T 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.
- No dust losses during addition.

Storage Stability

Good, under cool dry conditions. However, PEPTON 44T 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.