

Description

As a peptizer **PEPTON 040** efficiently reduces the viscosity of natural rubber and general purpose synthetic elastomers during mastication at elevated temperatures.

Composition

2,2' Dibenzamido diphenyl disulfide blended with a synergistic activator, inert carrier and mineral oil.

Typical Properties

Appearance	grayish powder
Odor	slight, characteristic
Specific Gravity	approximately 1.80
Ash % wt.	56 maximum
Sieve residue %	1.5 maximum (100 mesh)
Moisture %	1 maximum

Applications

PEPTON 040 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

Behavior in Rubbers

PEPTON 040 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 **PEPTON 040** is inhibited by sulfur 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 040**.

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.

Storage Stability

Good under cool dry conditions. However **PEPTON 040** should be used within four years of certification. Some compaction may occur in storage. This is normal and will not affect the inherent performance of the product.

Packaging

Boxes with polythene liner.
Net weight 50lbs.