

Pepton® 44

(2,2'-Dibenzamido Diphenyl Disulphide)

A blend of 50% Dibenzamido Diphenyl Disulphide (DBD), inert carrier and synergistic activator for improved dispersion.

Sole European producer of DBD

Highest active content for rapid performance

Ready-to-use peptiser with minimal filler

Applications

- Catalytically reduces the viscosity of natural rubber and unsaturated synthetic elastomers.
- A 'ready for use' peptising additive where high effective mixing is available.

Features and Benefits

- Thomas Swan is the only European producer of the primary active ingredient DBD used in chemical peptisers.
- Pepton 44® offers the highest active content of any ready to use peptiser, providing highest speed of action at the lowest addition rate.
- Fast chemical chain scission during mastication.
- Contains the least inert carrier or filler of any formulated Pepton grade, maintaining the integrity of the compound it is used in.
- Free-flowing and suitable for automatic weighing.
- Effective mastication with faster viscosity reduction utilising less energy
- Higher process speeds in extrusion, calendaring, and moulding
- Non-toxic formulation contains no volatiles.
- Available in a broad range of pack options including custom pre-weighed, low melt packs, accurate to +/- 1g.
- Global network of sales offices, direct logistics and US and UK manufacturing and formulating centres ensuring security of supply and short lead times from stock

Mode Of Action

- Pepton® 44 prevents the recombination of the chains of natural rubber following radical scission during the mastication process thus reducing the viscosity of the polymer.
- The peptising action is inhibited by sulphur, so compounded rubbers undergo no further viscosity change on storage.

Packaging

- Multi-ply paper bags. Net weight 22.7kg (50lb), 40 bags per pallet.
- Custom pre-weighed, low melt polyethylene bags, accurate to +/- 1g.

Shelf Life

Good under cool dry conditions. However, Pepton 44® should be used within four years of certification. Some compactions may occur in storage. This is normal and will not affect the inherent performance of the product. It is



Committed to Responsible Care

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Handling

Consult relevant Material Safety Data Sheet

Guidelines for Use

0.2 to 0.4 phr in natural rubber and synthetic polyisoprene

1.5 to 3.0 phr in Synthetic unsaturated elastomers

Physical and Chemical Properties

Appearance	Blue/grey
Relative density	1.35 @ 20°C
Melting Point	136°C - 144°C
Odour	Slight, characteristic
Solubility Water	<1mg/l @ 20°C

Selling Specification

Appearance	Blue/Grey Powder
Acetone insolubles (%)	Max 51
Passing 100 Mesh	Min 95
Moisture content (%)	Max. 1

Inventory Status

Australia	Listed on AICIS	New Zealand	Listed on NZIoC
Canada	Listed on DSL	Philippines	Listed on PICCS
China	Listed on IECSC	Taiwan	Listed on TCSI
EU	Registered under REACH	Thailand	Listed on TDCA
Japan	Listed on ENCS	Türkiye	Registered under KKDIK
South Korea	Listed on AREC	USA	Listed on TSCA (Active)
Malaysia	Not Listed	Vietnam	Listed on VNECI
Mexico	Listed on INSQ	UK	Grandfathered

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