Pepton® 22

(2,2'-Dibenzamido Diphenyl Disulphide)

Pepton 22® is a 100% active Dibenzamido Diphenyl Disulfide (DBD) peptiser used in the high-temperature mastication of natural and synthetic rubbers.

Sole European producer of DBD

Highest assay and purity for maximum peptising power

Fastest viscosity reduction for optimal processing efficiency

Applications

- Mastication of natural rubber, polyisoprene, SBR and nitrile rubbers.
- Internal mixers due to its high activation temperature.
- Pre-dispersions / internal formulations

Features and Benefits

- Thomas Swan is the only European producer of the primary active ingredient DBD used in chemical peptisers.
- Pepton® 22, is the foundation of all Thomas Swan Pepton® formulations with unrivalled production specification, including highest available assay, performance and consistency.
- Free-flowing and suitable for automatic weighing.
- Effective mastication achieving desired viscosity reduction faster and with less energy.
- Enables 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

Mode Of Action

- Pepton 22® acts as radical acceptors, removing free radicals formed during the initial mixing of the elastomer. This prevents polymer recombination, allowing a consequent drop in polymer molecular weight, and thus the reduction in compound viscosity.
- Pepton 22® is inhibited by sulphur, so compounded rubbers undergo no further viscosity change on storage. Mastication should be completed before the addition of other compounding ingredients.

Packaging

- Multi-ply paper bags containing 25 kg.
- Custom pre-weighed, low melt polyethylene bags, accurate to +/- 1g.

Shelf Life

Store under cool dry conditions. Pepton 22® should be used within 12 months of manufacture. Some compactions may occur in storage. This is normal and will not affect the inherent performance of the product.

Handling

Consult relevant Material Safety Data Sheet

Guidelines for Use

0 to 0.5 phr in natural rubber and synthetic polyisoprene.

1 to 3.0 phr in Synthetic unsaturated elastomers

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Physical and Chemical Properties

Apprearance	Yellow crystalline powder
Specific Gravity	1.35 at 20°C
Melting Point	136°C - 150°C
Odour	Slight, characteristic

Selling Specification

Assay	Up to 99.4%
Ash Content (%)	Max 0.5
Maximum Residue on 100 Mesh (BS410) % wt.	0.5
Maximum Residue on 200 Mesh (BS410) % wt.	4.0

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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