

Pepton® 86

(2,2'-Dibenzamido Diphenyl Disulphide)

Pepton® 86 is a blend of 12% Dibenzo Diphenyl Disulphide (DBD) and organo metal complex in pellet form

Sole European producer of DBD

Controlled mastication for precise viscosity

Energy-efficient formulation for smoother processing

Applications

- Catalytic viscosity reducer for natural rubber and unsaturated synthetic elastomers.
- A ready-to-use peptising additive suitable for both open mills and internal mixers.
- Optimized for applications requiring controlled viscosity reduction while maintaining rubber properties.

Features and Benefits

- Thomas Swan is the only European producer of the primary active ingredient (DBD) used in chemical peptisers.
- Based on Thomas Swan 100% active Pepton® 22, the foundation of all Thomas Swan Pepton® formulations.
- Offers controlled mastication process reducing the risk of over-softening.
- Ideal for applications where moderate viscosity reduction is required while preserving polymer integrity.
- Enables smoother mastication at lower shear forces, improving energy efficiency.
- Enhances extrusion, calendaring, and moulding speeds, optimizing downstream processing.
- Specifically formulated for quick incorporation at lower processing temperatures.
- Minimises residue and ash content, ensuring cleaner processing and better compound quality.
- All Pepton® products are currently produced using >85% renewable energy offering unrivalled sustainability and Carbon Footprint.
- Free-flowing and suitable for automatic weighing.
- 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® 86 prevents recombination of rubber chains after radical scission during mastication, effectively reducing viscosity.
- Lower DBD content ensures a gradual viscosity drop, offering better control over processing
- Peptising action ceases once sulfur is introduced, ensuring no further viscosity change in storage.

Packaging

- 25 kgs in sealed polythene liner bag in cardboard carton.
- Custom pre-weighed, low melt polyethylene bags, accurate to +/- 1g.

Shelf Life

Store under cool dry conditions. Pepton® 86 should be used within four years of manufacture. Some compactions may occur in storage. This is normal and will not affect the inherent performance of the product. It is recommended that the product is used within 48 months of certification.



Committed to Responsible Care

Thomas Swan
Polymer Performance Solutions



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Handling

Consult relevant Material Safety Data Sheet

Guidelines for Use

0.2 - 0.5 phr for natural rubber

Effective in mastication at 70°C and above, optimum performance is achieved at 150 - 160°C

Selling Specification

Ash %: wt	18 - 22
Assay %	10 - 14
Activator %	0.3 - 0.5
Moisture % Max	0.25
Binder %	60.5 - 64.5

Physical and Chemical Properties

Physical State	Solid
Colour	Blue / Green
Appearance	Oiled Powder
Melting Point	136°C to 150°C
Relative density	1.27 @ 20°C
Solubility Water	<1mg/l @ 20°C

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	USA	Listed on TSCA (Active)
South Korea	Listed on AREC	Vietnam	Listed on VNECI
Malaysia	Not Listed	UK	Grandfathered
Mexico	Listed on INSQ		

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