

PowerNox™ 616 Antioxidant

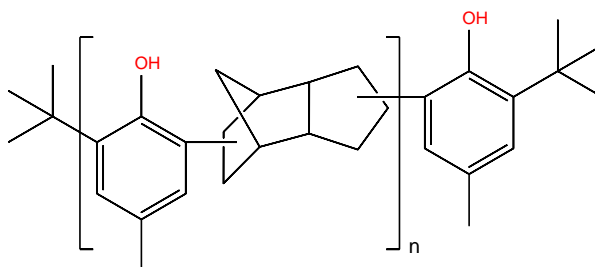
Introduction PowerNox™ 616 is a highly effective polymeric, non-discoloring phenolic antioxidant.

Chemical Name Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene

CAS Number 68610-51-5

EINECS Number 271-867-2

Chemical Structure



Chemical Formula C₂₁H₂₈O

Molecular Weight 600-700

Physical Properties

Appearance	Cream colored or amber powder or pellets
Softening point (°C)	Min.105
Bulk density (kg/m ³)	360 (pw) / 600 (pel)
Density (20°C, g/cm ³)	ca. 1.04 (solidified melt)

Solubility

Solubility [25°C]	g/100g solvent
n-Hexane	<0.1
Ethyl Acetate	>100
Acetone	>100
Chloroform	76
Methano	0.5
Toluene	>100

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Water	<0.1
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Volatility

Weight Loss (%)	Temperature (°C)
5	268
10	290
25	327

Benefits & Applications

PowerNox™ 616 is an excellent non-discoloring, non-staining antioxidant, possessing high activity and low volatility. PowerNox™ 616 stabilizer is highly recommended for the protection of isoprene and butadiene-based polymers.

PowerNox™ 616 is also recommended for the stabilization of natural rubber and latex, SBR and caboxylated SBR latices, ABS, ASA, MBS, SBS, SIS, CR, NBR, BR and for tackifiers, adhesives and sealants.

PowerNox™ 616 is highly resistant to extraction by washing and boiling making it especially suitable for use in rubber threads and latex for carpet backing and foams. PowerNox™ 616 can be prepared as an aqueous dispersion for easier handling and addition to water-based systems.

Handling & Storage

In accordance with good industrial practice, handle with care and avoid unnecessary personal contact. Avoid continuous or repetitive breathing of dust. Use only with adequate ventilation. Protect skin. Avoid dust formation and ignition sources.

This product may be stored up to four years in a sealed container. Containers should be stored in a cool, dry area. Extended storage at elevated temperatures or exposure to direct heat or sunlight could reduce product life. Keep containers sealed when not in use.

For more detailed information please refer to the material safety data sheet.

Packing

PowerNox™ 616 is supplied in 25Kg Paper Bag.

Note

All information in the leaflet is based on our present knowledge and



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experience. We reserve the right to make any changes according to technological progress or further developments. Performance of the product described herein should be verified by testing.

We specifically disclaim any other express or implied warranty of fitness for a particular purpose or merchantability.

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