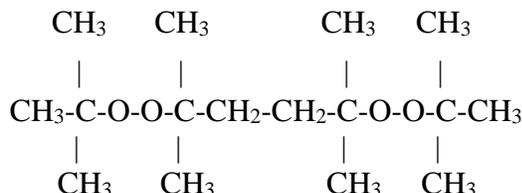




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## RUBBER CHEMICALS -PEROXIDES-

### AKROCHEM® DDPH Liquid AKROCHEM® DDPH-50



#### PRODUCT DESCRIPTION:

Akrochem DDPH is a liquid dialkyl peroxide, 2,5-dimethyl-2,5-di(tert-butylperoxy) hexane, for use as a cross-linking agent for synthetic and natural rubbers. Akrochem DDPH-50 is a dispersion of the liquid peroxide on calcium carbonate and silica. The dispersed form provides improved handling characteristics and properties associated with powdered compounding ingredients. [Note: The true active peroxide is 45-46% in the DDPH-50 product. This is because the pure liquid is approx. 92% active. The pure product is always cut for safer handling].

#### TYPICAL PROPERTIES:

<i>Grades:</i>	<i>DDPH</i>	<i>DDPH-50</i>
Form	liquid	powder
Peroxide Content, %	~92	~45
Specific Gravity (calc.)	0.87	1.50
Carrier Type		CaCO <sub>3</sub> /Silica

#### APPLICATIONS:

Akrochem DDPH peroxide is used as a catalyst for cross-linking a variety of synthetic rubbers including EPR, EPDM, EVA, NBR, polychloroprene, PVC, chlorosulphonated polyethylene, SBR, polyurethane, and silicone. The powdered form provides ease of handling and weighing accuracy. DDPH peroxide is a low odor catalyst and due to its aliphatic structure, imparts a minimal amount of discoloration in the final cure. Typical dosages range from 1.0 to 10.0 phr depending on polymer type and filler loadings. In its liquid form, DDPH is a clear, colorless liquid which can be used as a cure catalyst in applications where optical clarity is essential. Unlike Bis (t-butylperoxy) diisopropylbenzene peroxide ("Vulcup" type), DDPH peroxide will not bloom from EPDM's. In silicones, only vinyl-containing polymers can be cured. In peroxide-curable FKM, use 2.5 phr DDPH-50 peroxide along with 4 phr coagent Akrosorb 19251 (72% TAIC).

DDPH is acceptable under FDA 177.2600 Regulations, Sec.(b) "Accelerators" under the chemical name: (1,1,4,4-Tetramethyltetramethylene) bis-tert-butyl peroxide.

tee 8/6/2024  
X-ddph (# 03540 & 03547)

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