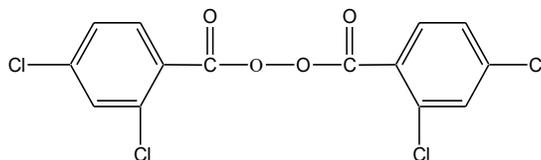




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## RUBBER CHEMICALS -PEROXIDES-



### AKROCHEM® DDCBP-50

#### PRODUCT DESCRIPTION:

Akrochem DDCBP-50 is a white, stiff paste consisting of 50% Di(2,4-dichlorobenzoyl)peroxide, desensitized with silicone oil. This halogenated diaryl peroxide is used as a source of radicals in the cross-linking of polymers above 100°C, **primarily silicone rubber**.

#### TYPICAL PROPERTIES:

Di(2,4-Dichlorobenzoyl)peroxide .....	49.0 - 51.0%
Active Oxygen .....	2.06 - 2.15%
Specific Gravity .....	1.25
Color and Form .....	Stiff, white paste
One-hour Half-life Temperature .....	72°C

#### APPLICATIONS:

Akrochem DDCBP-50 peroxide is used as a catalyst for cross-linking a variety of synthetic rubbers, primarily silicone; at temperatures above 100°C (100-115°C cures should be done under pressure and then post-cured 12-24 hrs. at 150-250°C). Typical usage level is 1-2 phr of product as supplied. DDCBP-50 has the lowest activation temperature and the highest rate of cure of any of the common peroxides used in cross-linking. It is ideally suited for fast curing of thin cross-sections in continuous cures.

Special advantages of this peroxide: Not oxygen inhibited. DDCBP-50 can be used in hot air cures at atmospheric pressures at temperatures from 150-250°C. Decomposition products have a very low vapor pressure, so porosity does not normally occur. It is listed with FDA under regulation 177.2600, rubber articles in repeated contact with food.

Disadvantages: Caution must be used in dealing with fast scorch times. The peroxide is sensitive to carbon blacks. Also, thick cross-sections may revert due to acid by-products of decomposition.

Another use of DDCBP-50 is in combination with other peroxides. This may allow de-molding of parts that would otherwise hot tear by first curing with DDCBP-50 before the second peroxide becomes active. Post-curing then finishes cure.

tec - 2/11/2026, t-dccb-50 (st # 03542)

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