

DI-CUP[®] 40KE

Di-cup[®]40KE is a 40% dicumyl peroxide on kaolin clay

Chemical name: Dicumyl peroxide

CAS Number: 80-43-3

Molecular Weight (g/mol): 271

STANDARD SALES SPECIFICATIONS

Characteristics	Value
Appearance	Powder
Peroxide content	39.5 - 41.5%

TYPICAL PROPERTIES

Property	Value
Self Accelerated Decomposition Temperature (SADT)	196°F (91°C)
Melting point	38°C (100°F)

APPLICATIONS

Di-Cup[®] 40KE is frequently used as a high temperature crosslinking agent for curing rubber and elastomers. Compounds containing Di-Cup[®] 40KE are most often processed at temperatures of 300°F to 425°F.

DI-CUP® 40KE

HALF-LIFE TEMPERATURE

The half-life time of a peroxide $t_{1/2}$ is a suitable means to determine its reactivity. It is dependent on temperature and can be calculated according to the Arrhenius equation.

$t_{1/2}$ (60 min)	137°C / 279°F
$t_{1/2}$ (600 min)	117°C / 243°F

SAFETY AND HAZARD CLASSIFICATION

Please consult the Safety Data Sheet before using the product.

STORAGE AND HANDLING

When stored at room temperatures, 24 to 26°C (75 to 79°F), Di-Cup® 40KE is very chemically stable and can be held for several years without any appreciable loss of peroxide activity. However, turnover of inventory on at least an annual basis is recommended.

Do not store above: 30°C (86°F)

PACKAGING AND TRANSPORT

Di-Cup® 40KE is packaged in 100 lb fiber drums or 20 kg cartons.

Arkema Inc. (USA)
900 First Avenue
King of Prussia, PA 19406 - USA
T +1 610 205 7000

Arkema Investment Co. Ltd (China)
6/F Block 1, Life Hub@Daning
1868 Gonghexin Road,
200072 Shanghai - China
T +86 21 6147 6888

Headquarters: Arkema France
51, Esplanade du Général de Gaulle
92800 Puteaux - France
T +33 (0)1 49 00 80 80
www.luperox.arkema.com

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